

TOWN OF FAIRHAVEN, MASSACHUSETTS

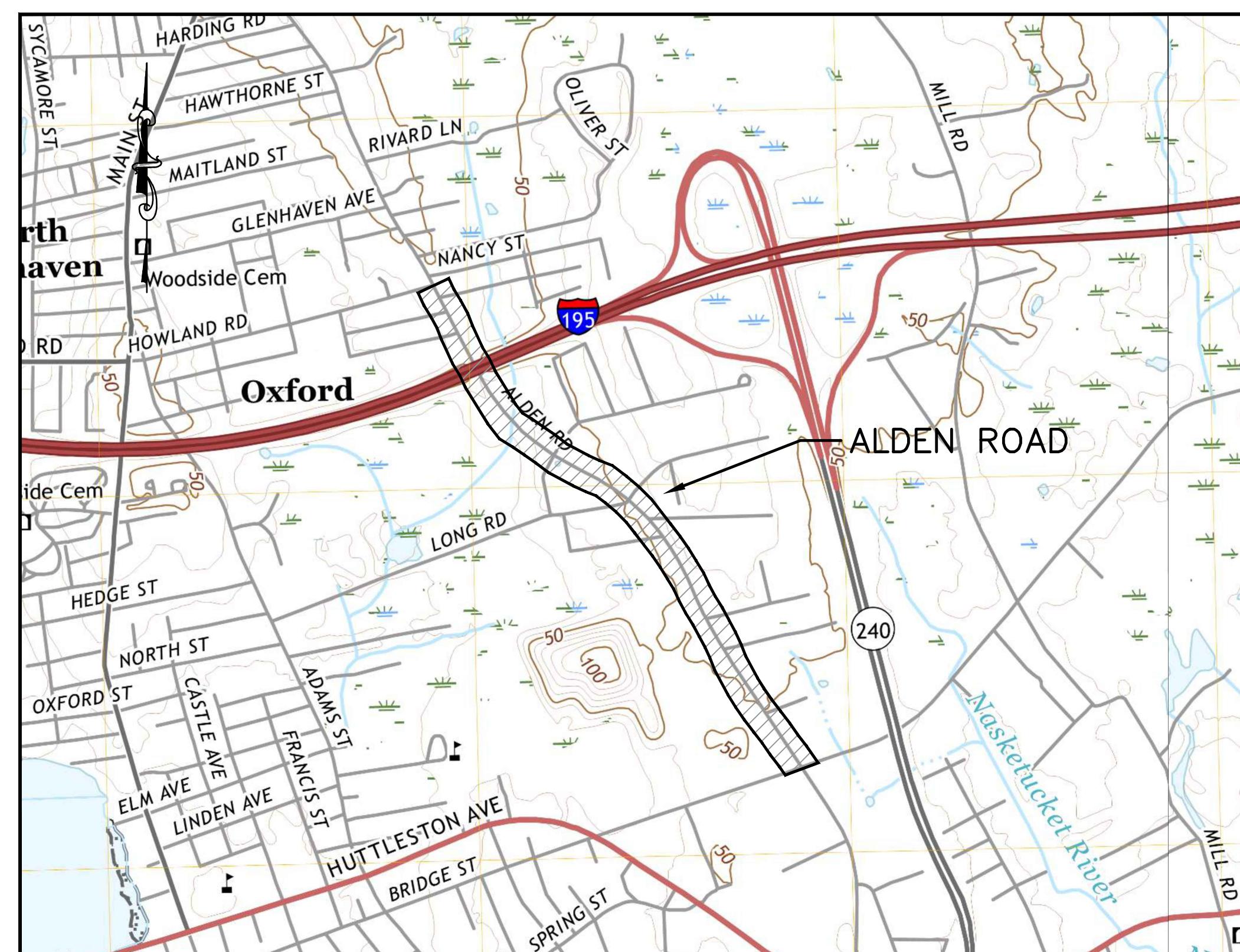
COMPLETE STREETS

PROJECT 1, 2, AND 17

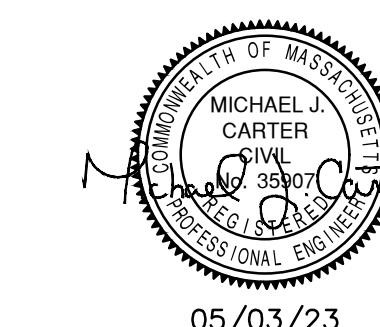
MAY 3, 2023

PUBLIC WORKS DEPARTMENT

VINCENT FURTADO, BPW SUPERINTENDENT
JOSHUA CRABB, HIGHWAY SUPERINTENDENT



LOCUS PLAN
SCALE : 1" = 1,000'±



INDEX TO DRAWINGS

<u> SHEET NO. </u>	<u> DESCRIPTION </u>
1	COVER PAGE
2	GENERAL CONSTRUCTION NOTES
3-7	EXISTING CONDITIONS
8	CONSTRUCTION DETAILS I
9	CONSTRUCTION DETAILS II
10	BIKE LANE CROSSING DETAILS
11	PEDESTRIAN CROSSING DETAILS – MAIN STREET
12	PEDESTRIAN CROSSING PLAN – MAIN STREET & WILDING STREET
13	TRAFFIC CALMING SAFETY PLAN – SCONTICUT ROAD
14	PEDESTRIAN CROSSING PLAN – ORCHARD STREET & SCONTICUT ROAD
15	CONSTRUCTION DETAILS III
16	CONSTRUCTION DETAILS IV
17	CONSTRUCTION DETAILS V

ABBREVIATIONS

ALT	ALTERNATE
BB	BITUMINOUS BERM
BND	BOUND
BLDG	BUILDING
BIT CONC	BITUMINOUS CONCRETE
BM	BENCH MARK
BOL	BOLLARD
BRK	BRICK
CB	CATCH BASIN
CS	COMBINED SEWER
C	CONDUIT
C	CENTERLINE
CIP	CAST IRON PIPE
CMP	CORRUGATED METAL PIPE
CSMH	COMBINED SEWER MANHOLE
CST	COBBLESTONE
CULV	CULVERT
CO	COUNTY
CONC	CONCRETE
C.L.D.I.	CONC. LINED DUCTILE IRON
CLF	CHAIN LINK FENCE
DI	DUCTILE IRON PIPE
DR	DRIVE
DMH	DRAIN MANHOLE
DYL	DOUBLE YELLOW LINE
EMH	ELECTRIC MANHOLE
EX	EXISTING
FAB	FIRE ALARM BOX
EOP	EDGE OF PAVEMENT
GC	GRANITE CURB
GG	GAS GATE
GS	GAS SERVICE
GIP	GALVANIZED IRON PIPE
HW	HEADWALL
HSE	HOUSE
HOR	HORIZONTAL
HYD	HYDRANT
HP	HIGH PRESSURE
LP	LIGHT POLE
MB	MAIL BOX
MH	MANHOLE
MIN	MINIMUM
PE	POLYETHYLENE PIPE
PROP	PROPOSED
P	APPROXIMATE PROPERTY LINE
RCP	REINFORCED CONCRETE PIPE
RET WALL	RETAINING WALL
ROW	APPROXIMATE RIGHT OF WAY
RR	RAILROAD
SB	STONE BOUND
S	SIGN
SMH	SEWER MANHOLE
STA	STATION
S	SEWER
SS	SEWER SERVICE
STL	STEEL
SW	SIDEWALK
SWL	SOLID WHITE LINE
SL	STOP LINE
TBM	TEMPORARY BENCHMARK
TMH	TELEPHONE MANHOLE
TR	TREE
TYP	TYPICAL
UP	UTILITY POLE
VCP	VITRIFIED CLAY PIPE
VERT	VERTICAL
W	WATER MAIN
WG	WATER GATE
WD	WOOD
WIP	WROUGHT IRON PIPE
WS	WATER SERVICE
WSO	WATER SERVICE SHUTOFF
WV	WATER VALVE

SYMBOLS

●	BENCHMARK
□	BOUND
■	BUILDING
□	CATCH BASIN
◎	DRAIN MANHOLE
◎	ELECTRIC MANHOLE
▽	FLARED END
⊗	GAS GATE
⊗	HAYBALE
⊗	HYDRANT
⊗	IRON PIPE
⊗	LIGHTPOLE
□	MAILBOX
⊗	MANHOLE
·	PERC TEST
◎	SEWER MANHOLE
①	TELEPHONE MANHOLE
·	TEST PIT
⊗	TREE
◎	SIGN
◎	UTILITY POLE
⊗	WATER GATE

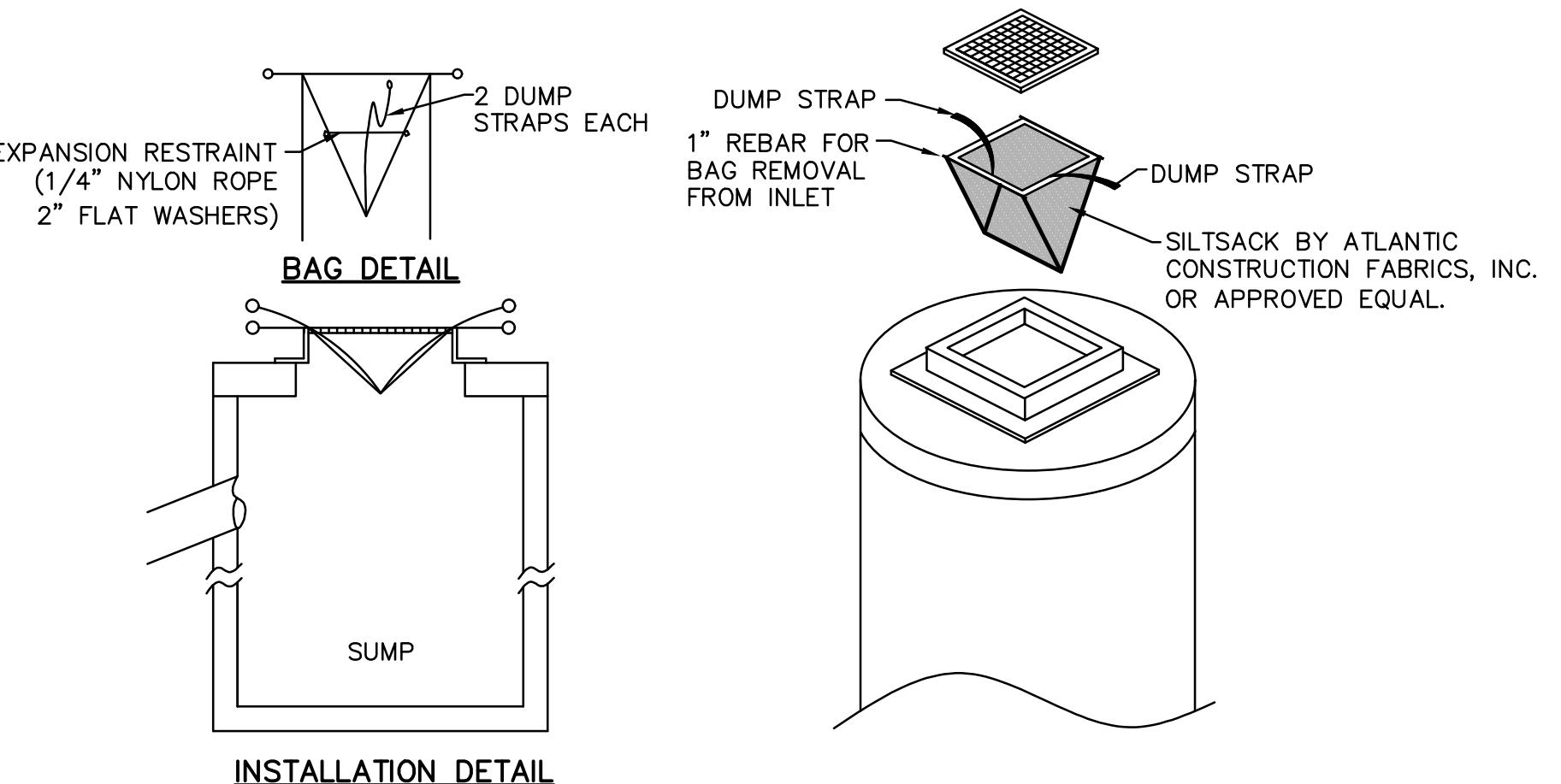
GENERAL CONSTRUCTION NOTES

- ALL LOCATIONS OF SUBSURFACE UTILITIES AND STRUCTURES WERE OBTAINED FROM AVAILABLE UTILITY RECORDS. THE SIZE, TYPE, AND LOCATION OF UTILITIES SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL PROPERLY LOCATE THE UTILITIES PRIOR TO THE BEGINNING OF CONSTRUCTION. THE CONTRACTOR SHALL OBTAIN UTILITY INFORMATION BY CONTACTING DIG SAFE A MINIMUM OF 72 HOURS PRIOR TO CONSTRUCTION AT (811). THE CONTRACTOR SHALL EXCAVATE TEST PITS TO VERIFY UTILITY LINE LOCATIONS AS NECESSARY.
- THE CONTRACTOR SHALL PROVIDE THE OWNER WITH A CONSTRUCTION SCHEDULE DELINEATING THE SEQUENCE OF WORK, TRAFFIC MANAGEMENT PLAN AND ESTIMATED TIME OF COMPLETION OF EACH SEGMENT OF WORK, PRIOR TO THE COMMENCEMENT OF WORK.
- THE CONTRACTOR SHALL MAINTAIN CONTINUOUS TRAFFIC FLOW DURING CONSTRUCTION SATISFACTORY TO THE ENGINEER AND THE TOWN OF FAIRHAVEN. NO EQUIPMENT SHALL BE ALLOWED TO BE PARKED ON THE ROAD WHEN NOT IN USE. MATERIALS SHALL NOT BE STOCKPILED ON THE ROAD.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SITE RESTORATION AND CLEAN UP UPON COMPLETION OF THE PROJECT.
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES AND PROCEDURES, AND FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH ALL WORK INCLUDED UNDER THIS CONTRACT. THE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR PROVIDING AND MAINTAINING ALL SAFETY BARRIERS, WARNING FLASHERS AND THE LIKE, AS REQUIRED BY THE CONDUCT OF THE WORK FOR THE PROTECTION OF WORKERS AND NON-WORKERS ALIKE. THE CONTRACTOR'S ATTENTION IS DIRECTED TO OSHA REQUIREMENTS.
- ALL CONSTRUCTION SIGNING SHALL CONFORM TO THE REQUIREMENTS OF THE STATE OF MASSACHUSETTS DEPARTMENT OF TRANSPORTATION (MASSDOT) AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- ALL CONSTRUCTION MATERIAL, DEBRIS, ASPHALT, SOIL, ETC. THAT IS REMOVED FROM THE SITE SHALL BE HANDLED AND DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS.

LINEWORK

EXISTING	PROPOSED	CURB
=====	=====	DRIVEWAY
○○○○○	○○○○○	EDGE OF PAVEMENT
○○○○○	○○○○○	FENCE
○○○○○	○○○○○	SIDEWALK

IDENTIFICATION NUMBER	SIZE OF SIGN (INCHES)		UNIT AREA SF	TEXT	TEXT DIMENSIONS	NUMBER OF SIGNS REQUIRED	COLOR	POST SIZE AND NUMBER REQUIRED PER SIGN	AREA IN SQUARE FEET
	WIDTH	HEIGHT							
R4-11	30"	30"	6.25		SEE MUTCD STANDARD DETAIL	2	SEE MUTCD STANDARD DETAIL	MNT 2 ON EX POLE AND 2" POST (3)	31.25
R3-17	24"	18"	3			20		MNT 4 ON EX POST, MNT 2 ON EX STREET LIGHT, AND 2" POST (10)	48
R3-17b	24"	"	1.33			2		MNT 2 BELOW R3-17	9.33
R3-17a	24"	8"	1.33			2		MNT 1 ON EX STREET LIGHT BELOW R3-17	1.33
W11-2	24"	24"	4			0		MNT 2 ON EX POST, MNT 1 ON EX STREET LIGHT, AND 2" POST (3)	24
W16-7PL	24"	12"	2			0		MNT BELOW W11-2	4
R4-4	36"	30"	7.5			0		MNT 1 ON EX STREET LIGHT	7.5
W16-9P	24"	12"	2			0		MNT BELOW W11-2	8
R1-5L	24"	24"	4			0		MNT ON 2" POST	4
R1-5R	24"	24"	4			0		MNT ON 2" POST	4



- SILT SACKS SHALL BE INSTALLED IN ALL CATCH BASINS DURING CONSTRUCTION PERIOD.
- INSPECTION SHALL BE WEEKLY AND REPAIR/REPLACEMENT MADE PROMPTLY AS NEEDED.
- SILT SACKS SHALL BE KEPT CLEAN AND FREE OF DEBRIS.

SILTSACK DETAIL
N.T.S.

GENERAL CONSTRUCTION NOTES, LEGEND, ABBREVIATIONS & SIGN SUMMARY TABLE

**FAIRHAVEN, MASSACHUSETTS
COMPLETE STREETS
PROJECT 1, 2 AND 17**

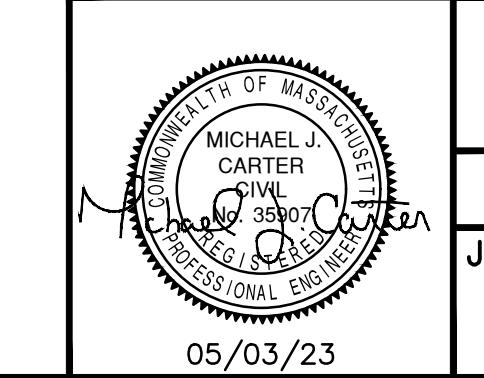
GCG ASSOCIATES, INC.

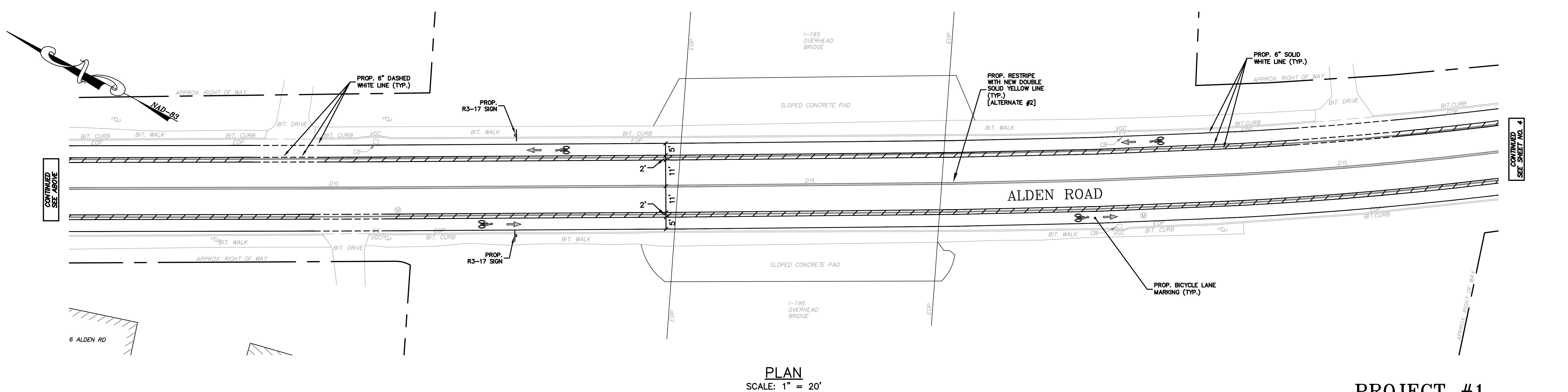
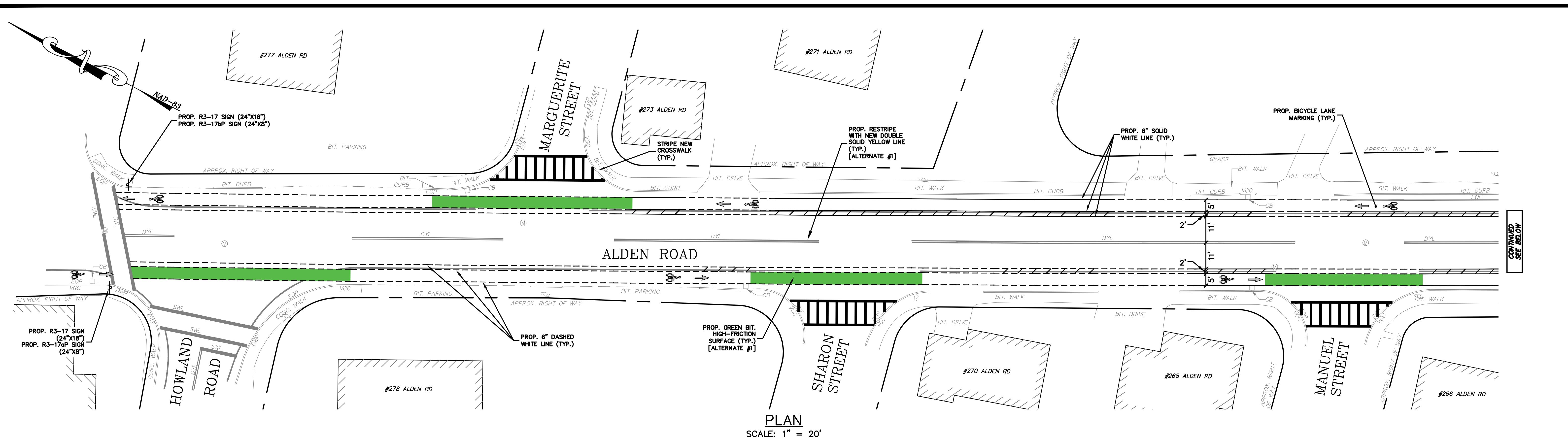
WILMINGTON MASSACHUSETTS

SCALE: N.T.S. DATE: MAY 2, 2023

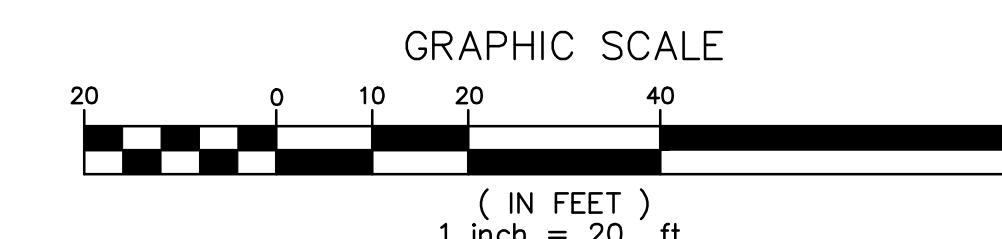
JOB NO. FILE NAME: DESIGNED BY: B.J.V. DRAWN BY: B.J.V. CHECKED BY: M.J.C. PLAN NO.

2153-ALDEN WORKING 2 OF 17

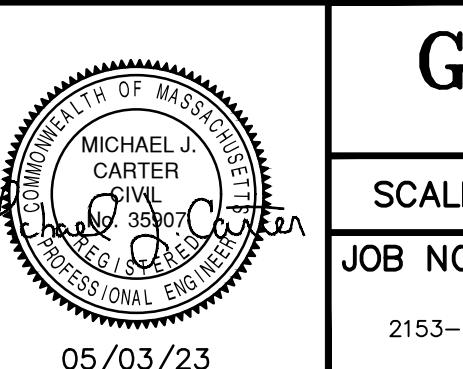




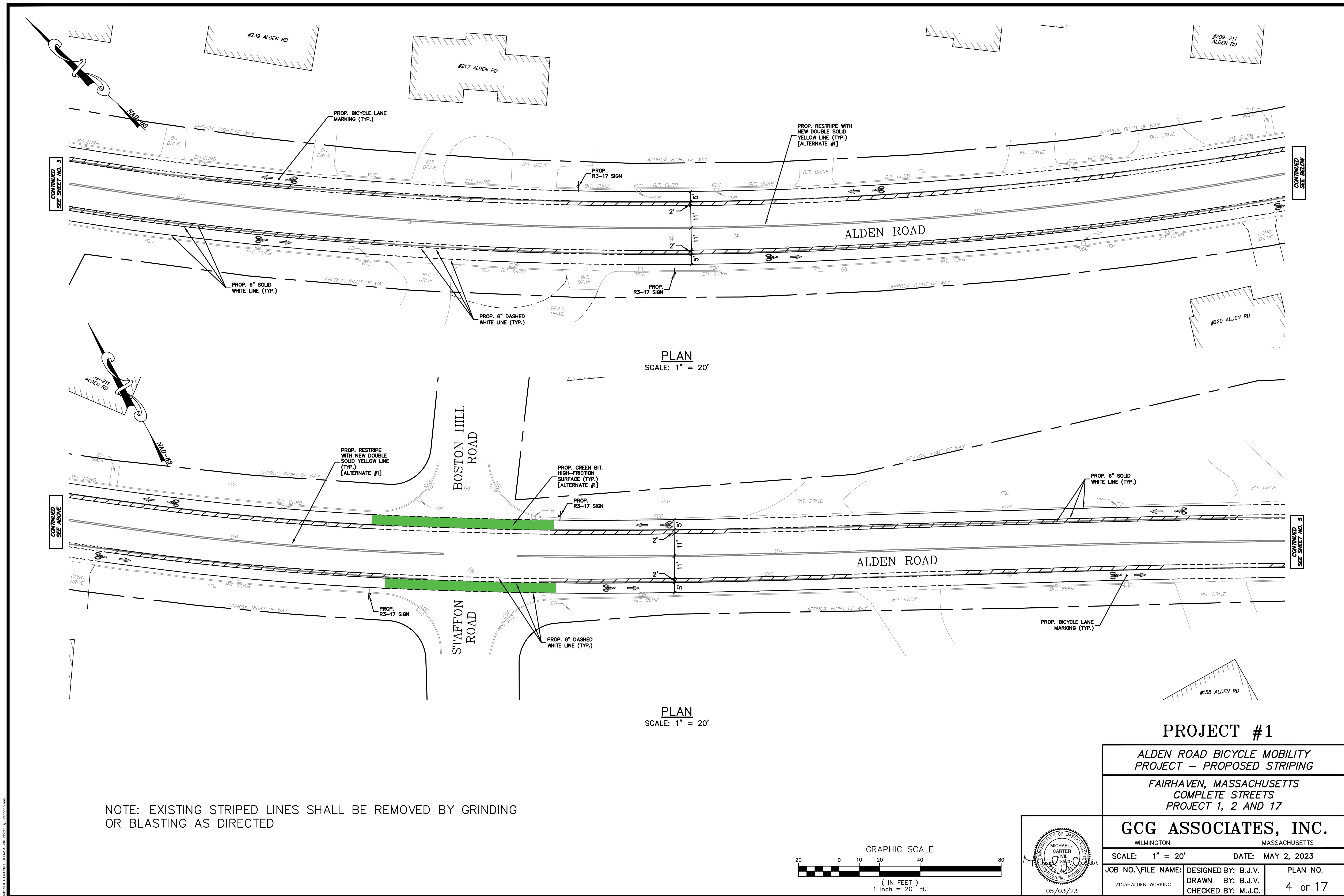
NOTE: EXISTING STRIPED LINES SHALL BE REMOVED BY GRINDING
OR BLASTING AS DIRECTED

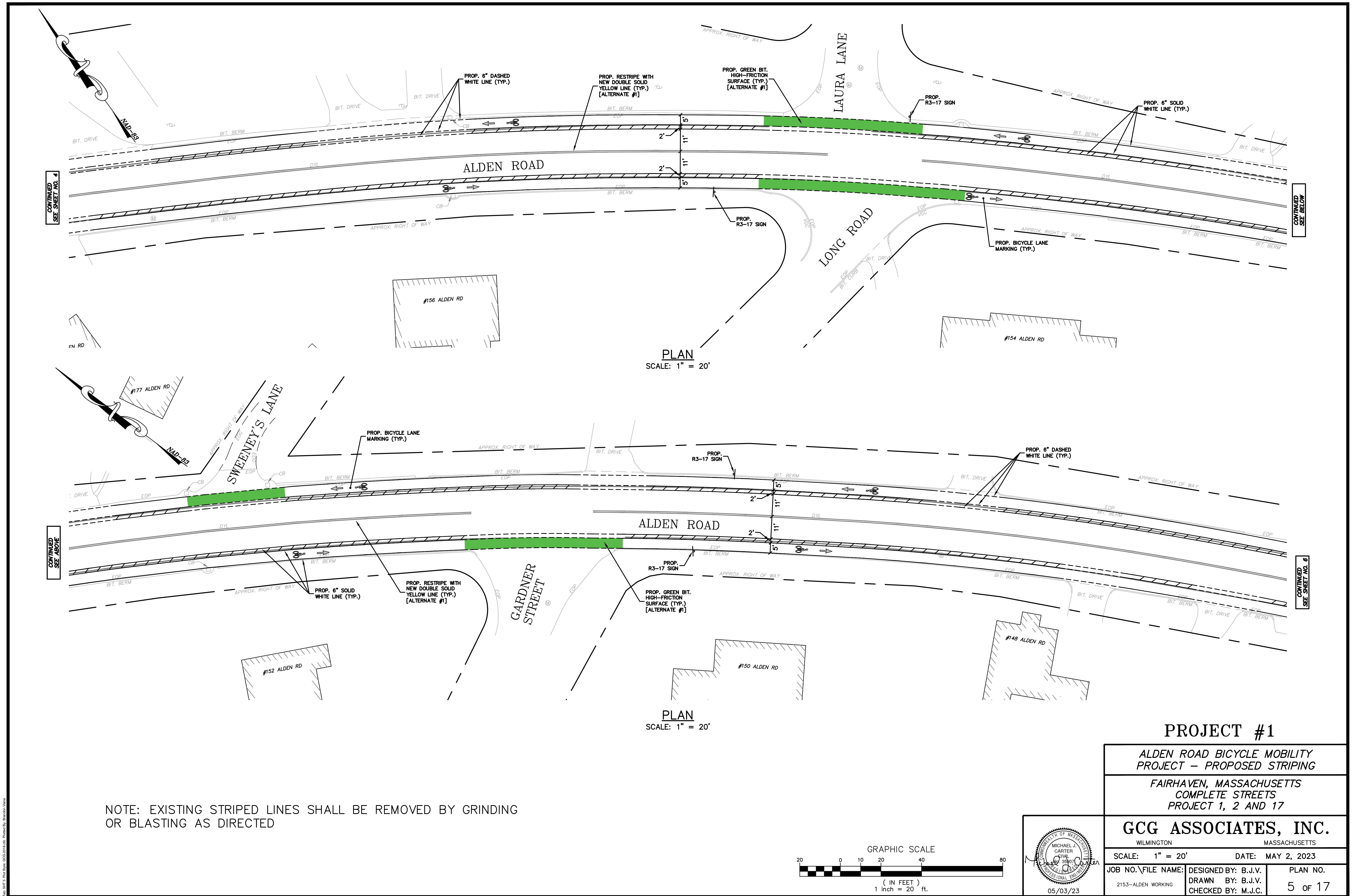


ALDEN ROAD BICYCLE MOBILITY PROJECT - PROPOSED STRIPING	
FAIRHAVEN, MASSACHUSETTS COMPLETE STREETS PROJECT 1, 2 AND 17	
GCG ASSOCIATES, INC.	WILMINGTON MASSACHUSETTS
SCALE: 1" = 20'	DATE: MAY 2, 2023
JOB NO.\FILE NAME: 2153-ALDEN WORKING	DESIGNED BY: B.J.V.
	DRAWN BY: B.J.V.
	CHECKED BY: M.J.C.

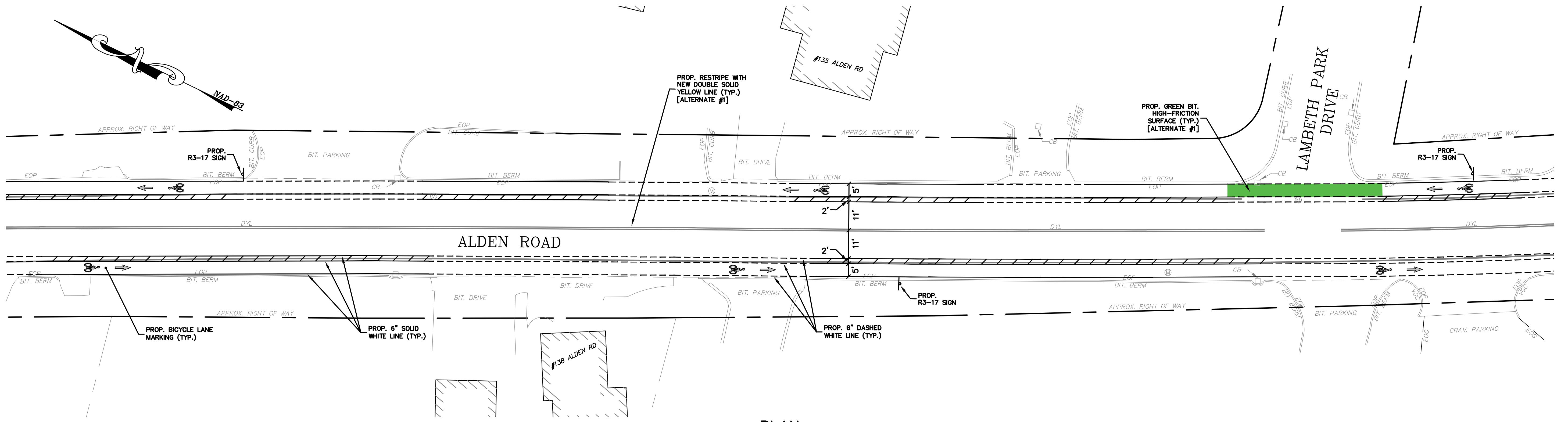


3 OF 17



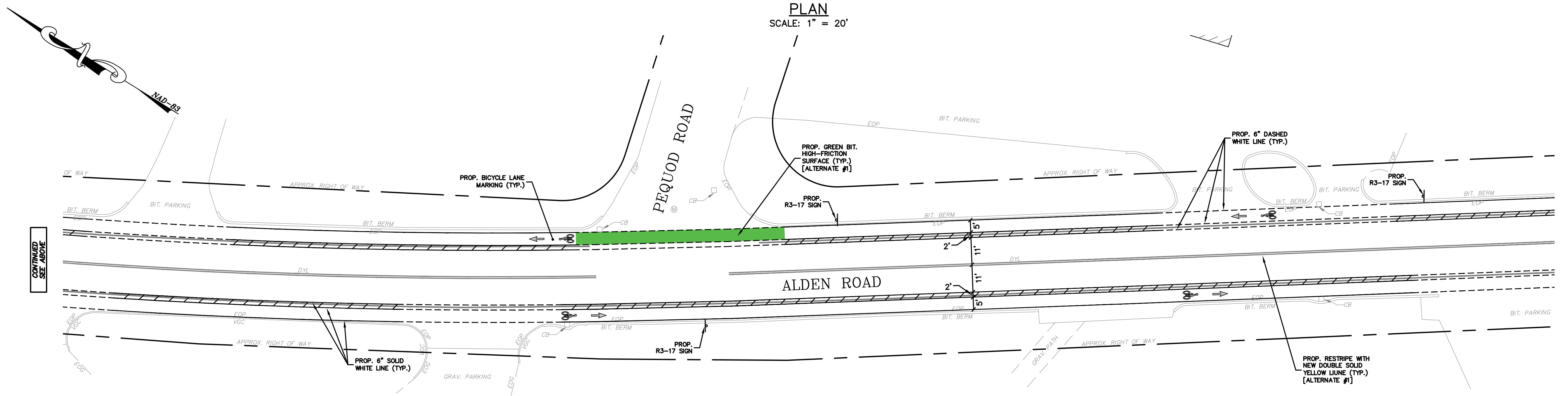


CONTINUED
SEE SHEET NO. 5



CONTINUED
SEE BELOW

CONTINUED
SEE SHEET ABOVE



CONTINUED
SEE SHEET NO. 7

PLAN
SCALE: 1" = 20'

NOTE: EXISTING STRIPED LINES SHALL BE REMOVED BY GRINDING
OR BLASTING AS DIRECTED

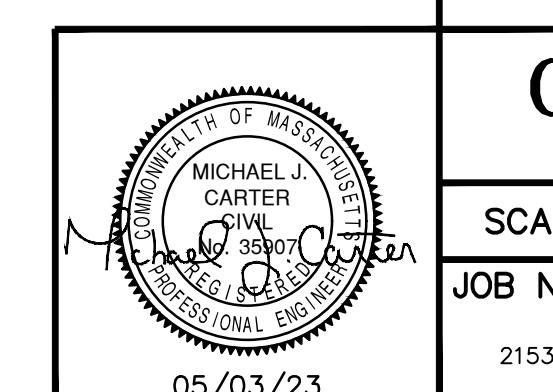
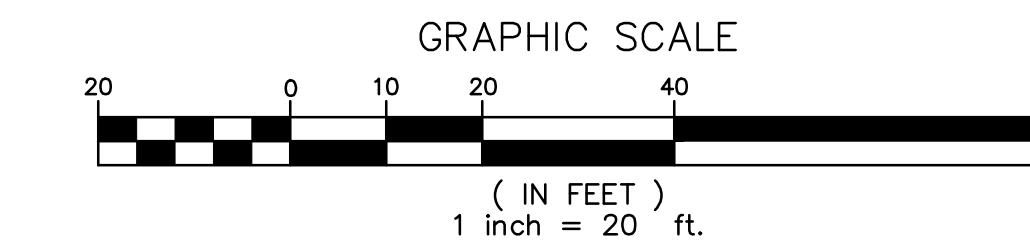
PROJECT #1

ALDEN ROAD BICYCLE MOBILITY
PROJECT - PROPOSED STRIPING

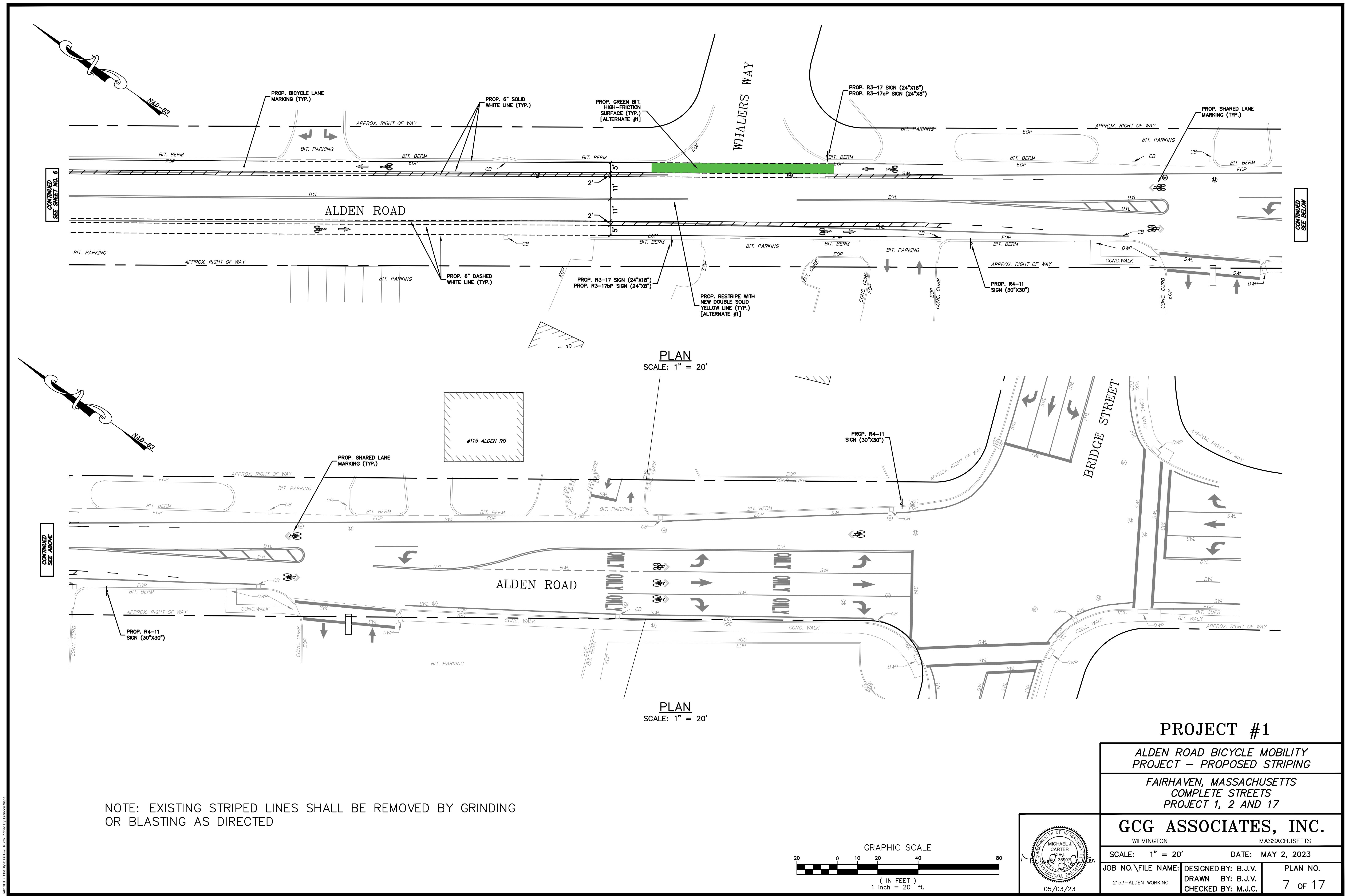
FAIRHAVEN, MASSACHUSETTS
COMPLETE STREETS
PROJECT 1, 2 AND 17

GCG ASSOCIATES, INC.

WILMINGTON MASSACHUSETTS

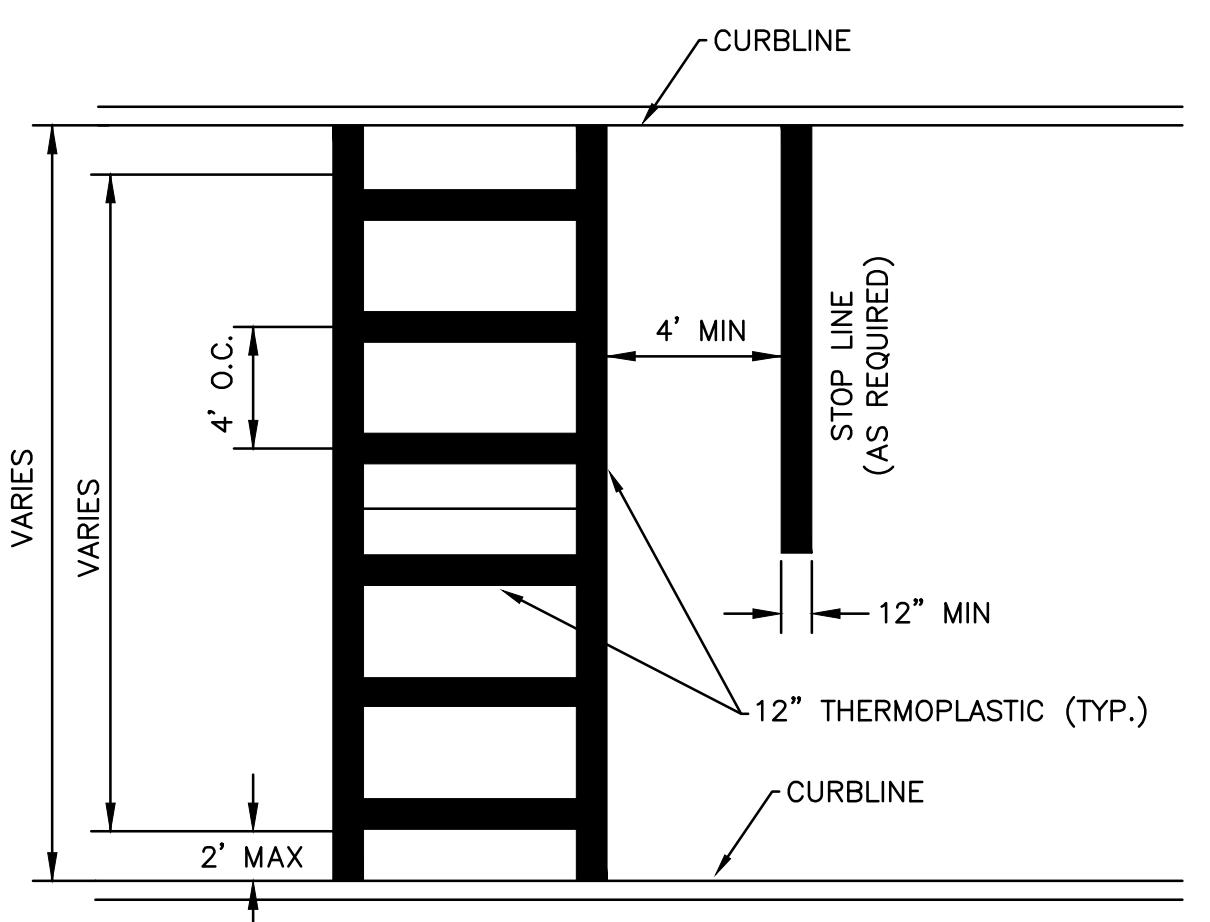


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CHECKED BY: M.J.C. PLAN NO.
2153-ALDEN WORKING
05/03/23
6 OF 17

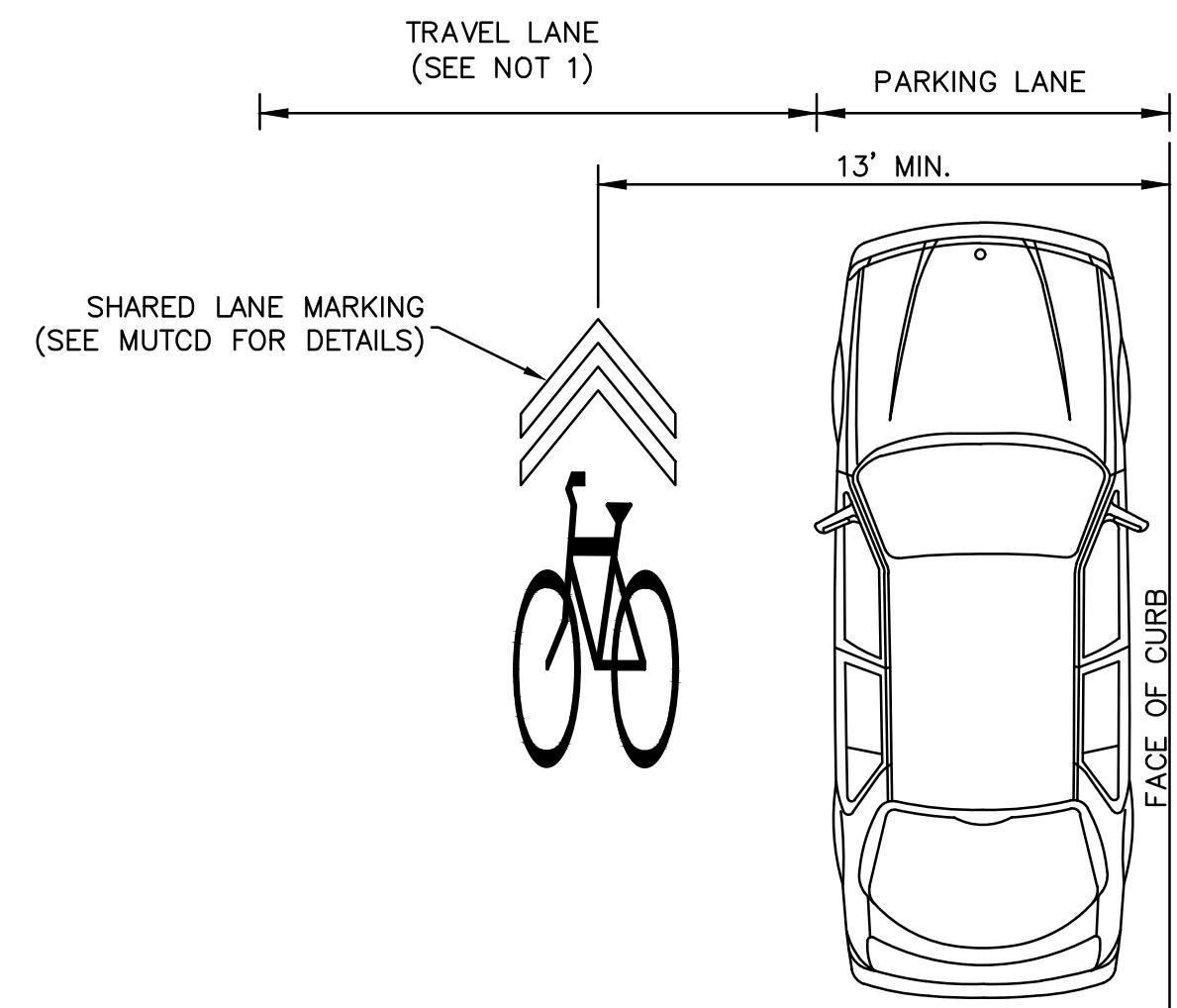
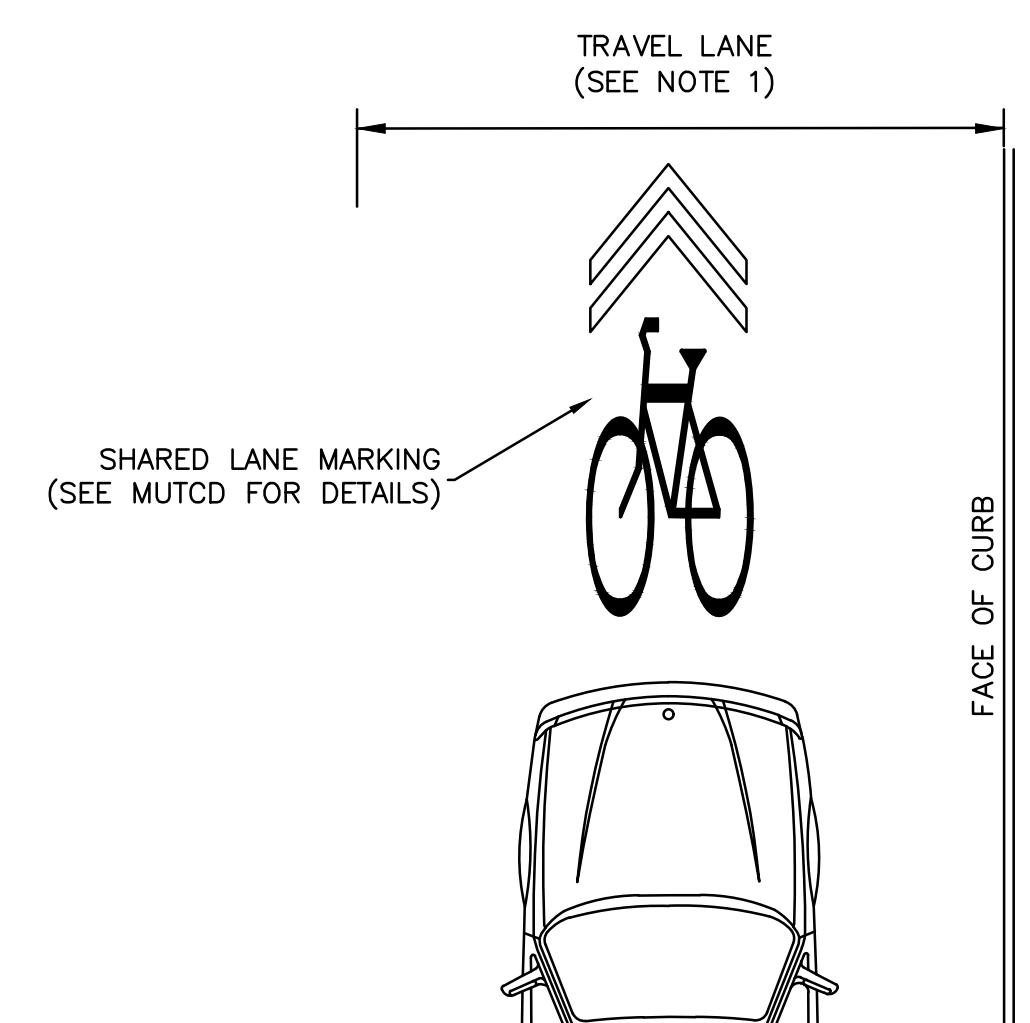


GENERAL NOTES:

1. FOR FULL PROJECT LENGTH, ALL EXISTING SIGNS & SIGN POSTS ARE TO BE REMOVED & STACKED EXCEPT PRIVATE SIGNS UNLESS OTHERWISE NOTED, OR AS DIRECTED BY THE FIELD ENGINEER.
2. ALL SIGNS SHALL CONFORM TO THE MANUAL ON UNIVERSAL TRAFFIC CONTROL DEVICES (MUTCD) 2009 EDITION WITH REVISIONS AND AMENDED BY THE MASSACHUSETTS DEPARTMENT OF TRANSPORTATION.
3. THE MINIMUM SIGN MOUNTING HEIGHT, MEASURED VERTICALLY FROM THE BOTTOM OF THE LOWEST SIGN TO THE TOP OF THE CURB OR SIDEWALK SHALL BE 7 FEET UNLESS OTHERWISE SPECIFIED ON THE PLANS.
4. WHEN MOUNTING NEW SIGNS & POSTS, CONTRACTOR SHALL NOT PLACE THEM WHERE THE VISIBILITY OF THE SIGN WILL BE OBSTRUCTED. THE SIGNS SHALL BE UNOBSTRUCTED TO ALL ROAD USERS. IF THE NEW SIGN POST IS IN CONFLICT WITH OTHER SURFACE STRUCTURES, THE PROBLEM SHALL BE REPORTED TO THE FIELD ENGINEER.
5. ALL SIGNS MOUNTED ALONG THE SIDE STREETS SHALL REMAIN IN PLACE.
6. IF NECESSARY, CONFLICTING EXISTING PAVEMENT MARKINGS SHALL BE REMOVED BY USING MASSDOT APPROVED METHODS ONLY.
7. REFER TO ATTACHED "RIGHT TURN BUS LANE COMBO" DETAIL.



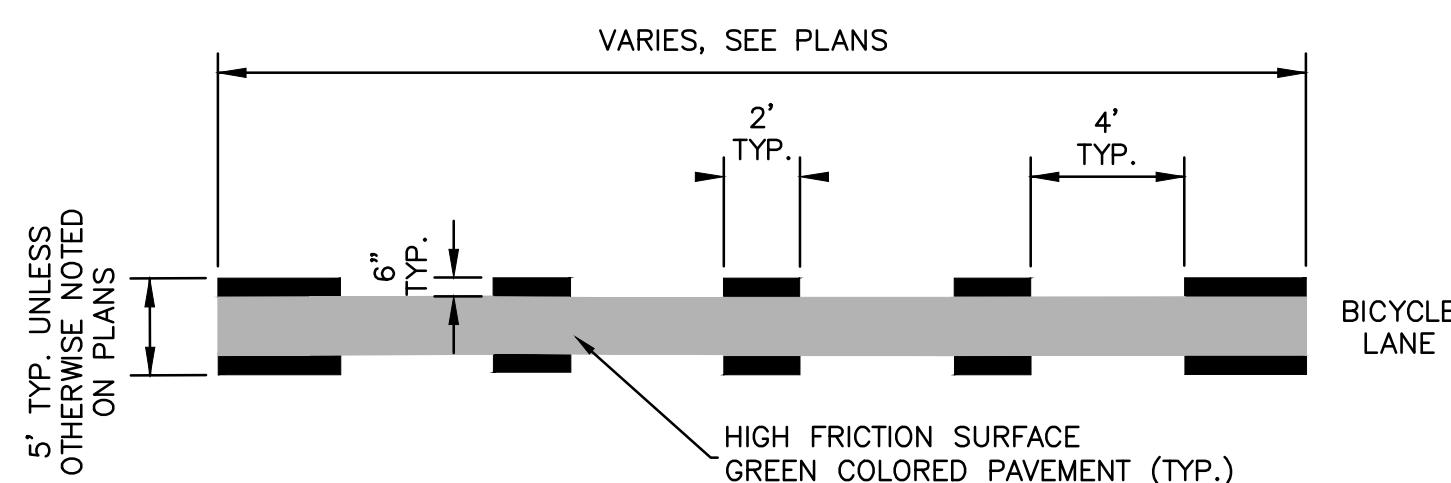
SPECIAL EMPHASIS CROSSWALK
NOT TO SCALE



NOTES:

1. IF TRAVEL LANE IS LESS THAN 14' SHARED LANE MARKING SHALL BE CENTERED IN TRAVEL LANE.
2. DESIGN PLANS SHOULD BE CONSULTED FOR VARIATIONS.

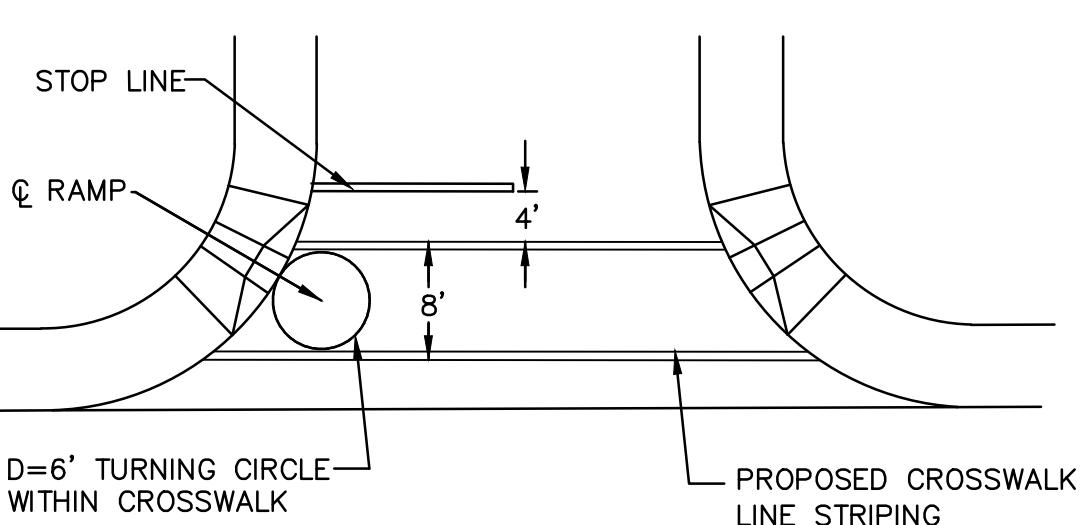
TYPICAL SHARED LANE MARKING SYMBOL WITH ON-STREET PARKING
NOT TO SCALE



BIKE CROSSING NOTES:

1. HIGH FRICTION GREEN COLORED PAVEMENT IS USED WHERE MOTOR VEHICLE TRAFFIC CAN TURN RIGHT ACROSS THE BYCYCLE LANE. SEE PLANS FOR LOCATIONS.
2. INSTALL HIGH FRICTION GREEN COLORED PAVEMENT BETWEEN 2' DASHED 6" WIDE WHITE LANE LINES AS SHOWN ON PLANS.
3. INSTALL HIGH FRICTION GREEN COLORED PAVEMENT SO THAT CROSSWALK MARKINGS ARE NOT DISTURBED.
4. TRAVEL LANE WIDTHS ARE AS SHOWN ON PLANS.

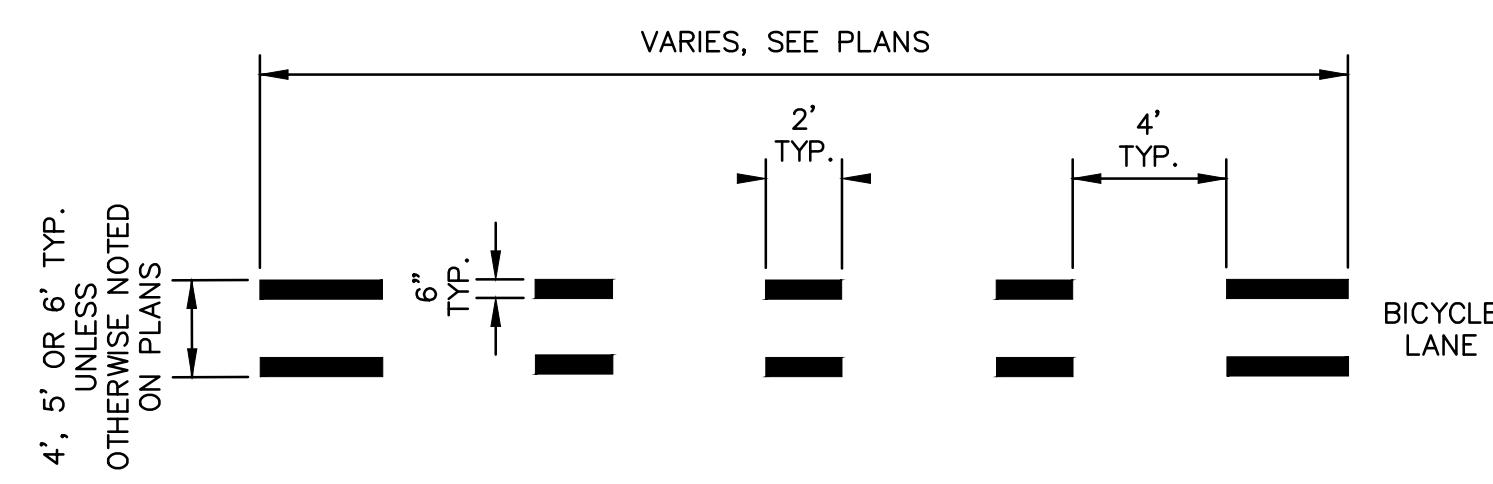
HIGH VISIBILITY GREEN BIKE LANE EXTENSION
NOT TO SCALE



NOTES:

1. CROSSWALKS SHALL BE PAINTED AT ALL PAIRED WHEELCHAIR RAMP LOCATIONS WITHIN THE LIMITS OF WORK WHEN NOTED ON PLAN.
2. THE CROSSWALKS AND STOP LINES SHALL BE PAINTED WITH 12" WIDE, WHITE REFLECTORIZED THERMOPLASTIC PAINT IN THE PATTERN SHOWN ON THE PLAN AND ADDITIONAL DETAILS.

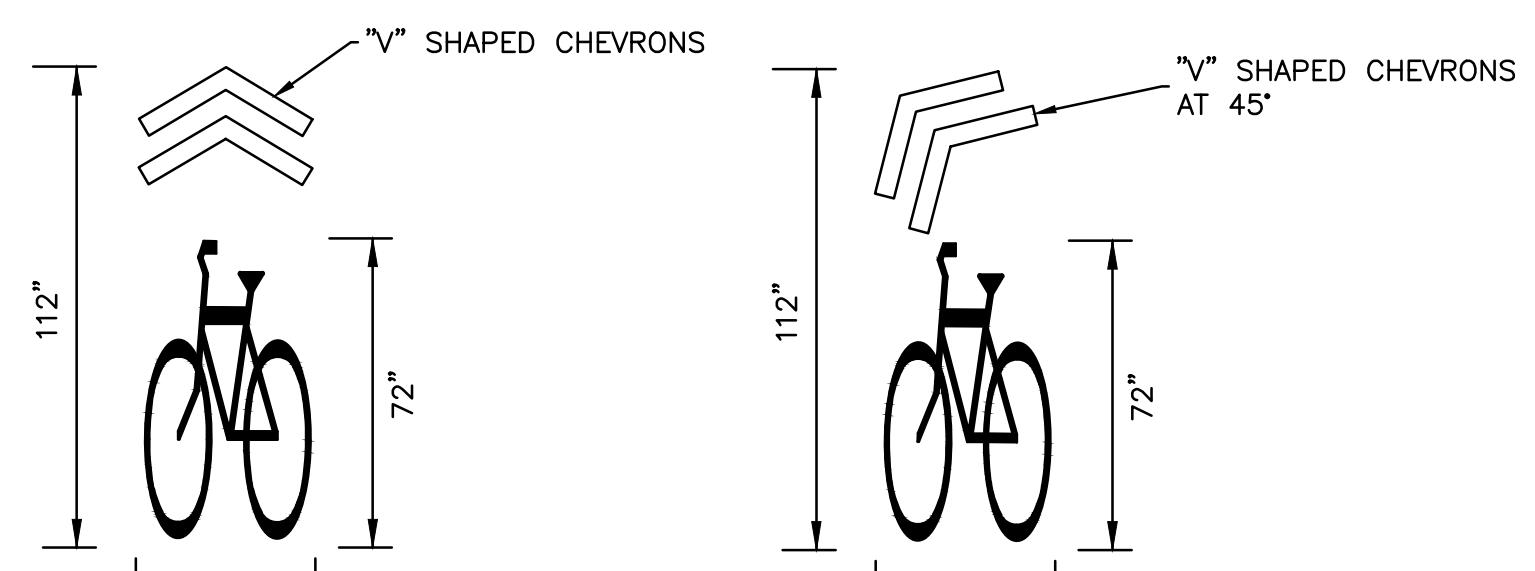
PAIRED WHEELCHAIR RAMP & CROSSWALK DETAIL
N.T.S.



BIKE LANE EXTENSION
NOT TO SCALE

BIKE CROSSING NOTES:

1. INSTALL BIKE LANE EXTENSION WITH 2' DASHED, 6" WIDE WHITE LANE LINES SINGLE LINE OR DOUBLE LINE AS SHOWN ON PLANS.
2. INSTALL BIKE LANE EXTENSION SO THAT CROSSWALK MARKINGS ARE NOT DISTURBED.
3. TRAVEL LANE WIDTHS ARE AS SHOWN ON PLANS.

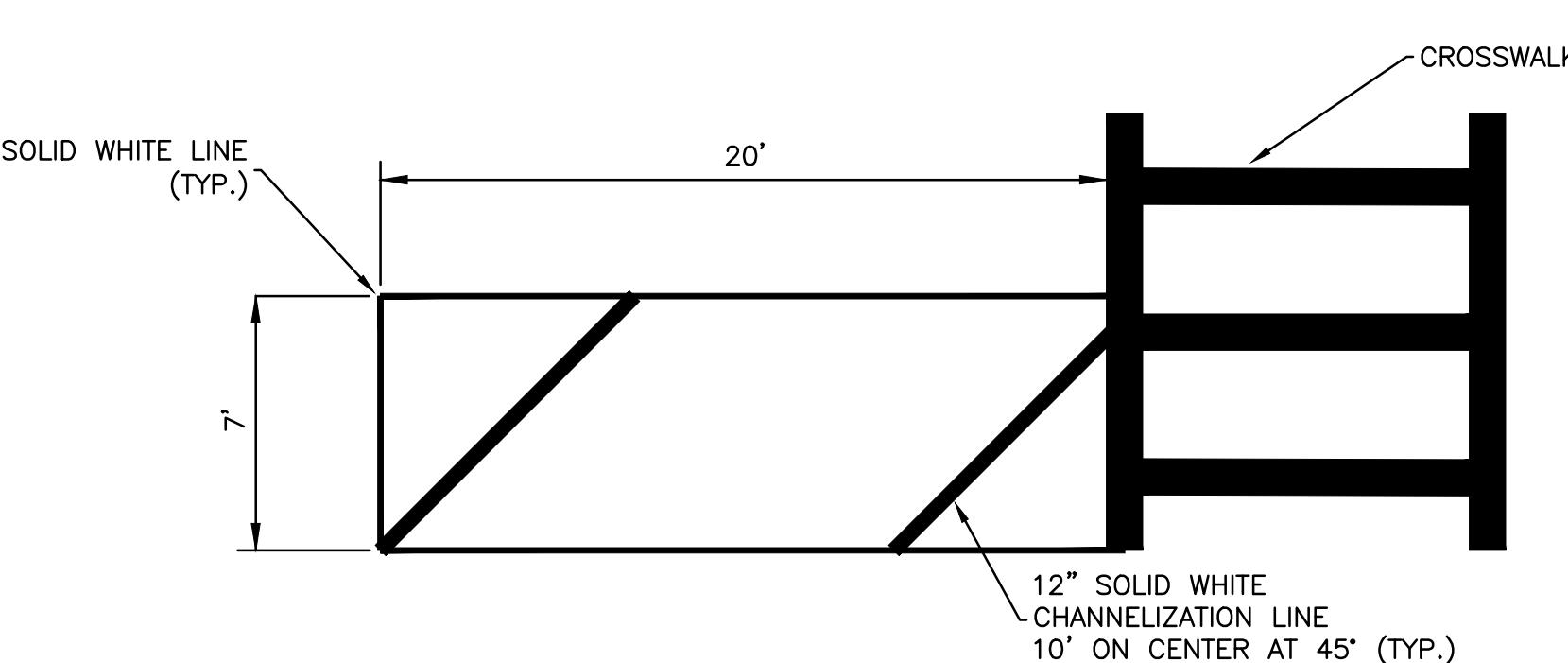


TYPICAL SHARED LANE MARKING SYMBOLS
NOT TO SCALE

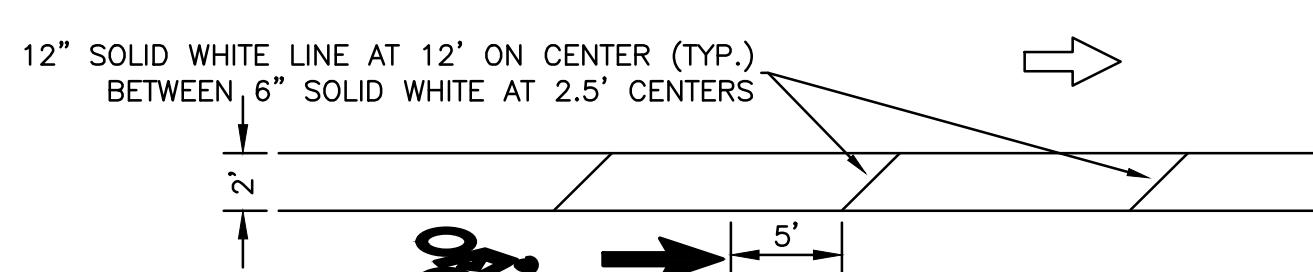
NOTES:

1. SHARED LANE MARKING PER MUTCD STANDARDS.
2. MARKING SHALL BE RETROREFLECTORIZED THERMOPLASTIC.
3. SHARED LANE MARKING SHALL BE PLACED IMMEDIATELY AFTER INTERSECTION AND SPACED AT INTERVALS NOT GREATER THAN 250 FEET THEREAFTER.
4. SEE ADDITIONAL LANE LAYOUT DETAILS ON THIS SHEET.

TYPICAL SHARED LANE MARKING SYMBOL WITHOUT ON-STREET PARKING
NOT TO SCALE



DAYLIGHTING AREA AT CROSSWALK WITHOUT STOP BAR
NOT TO SCALE



BIKE LANE BUFFER MARKING
NOT TO SCALE

1. MARKING SHALL BE RETROREFLECTORIZED THERMOPLASTIC.

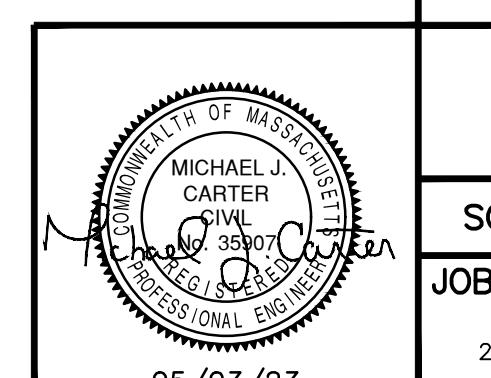
CONSTRUCTION DETAILS 1

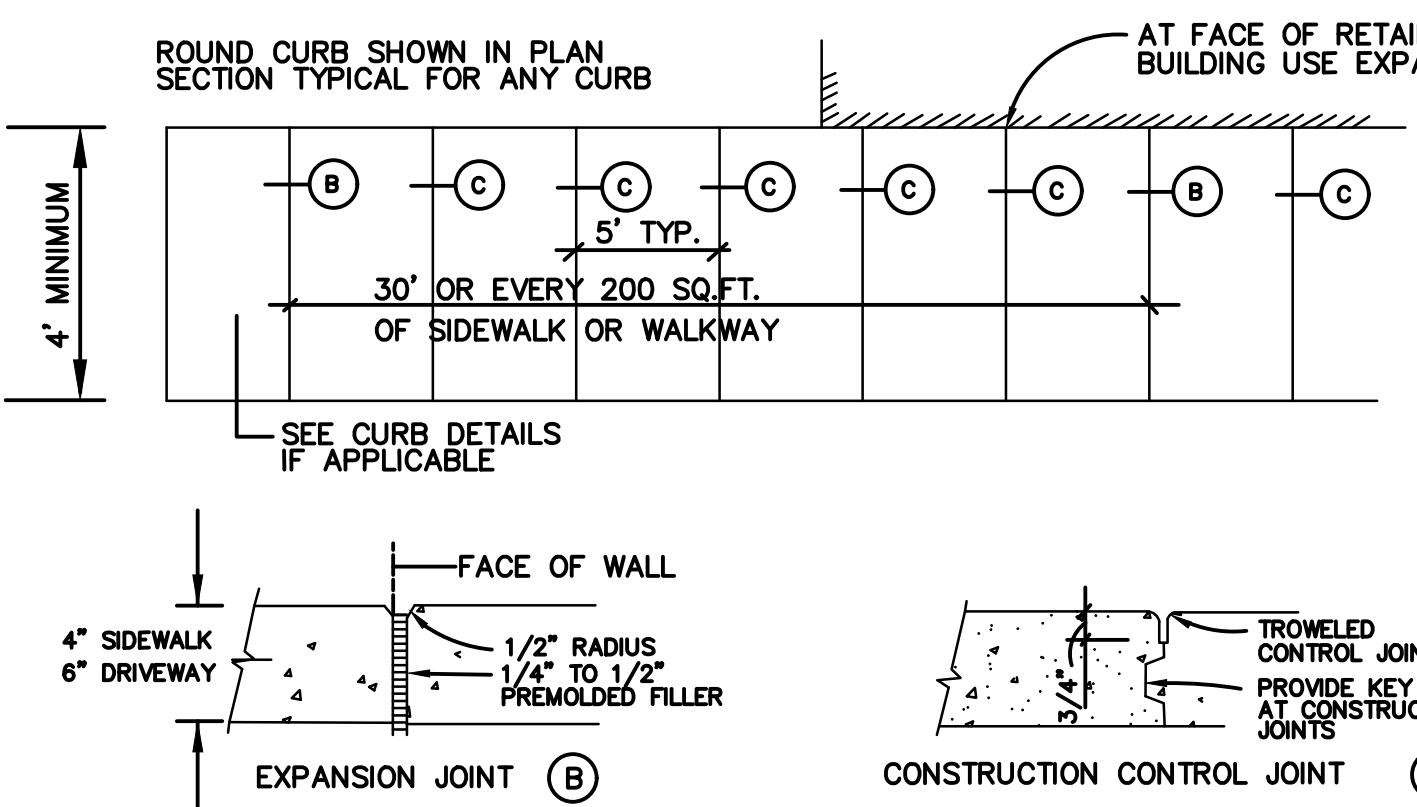
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COMPLETE STREETS
PROJECT 1, 2 AND 17

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WILMINGTON
MASSACHUSETTS

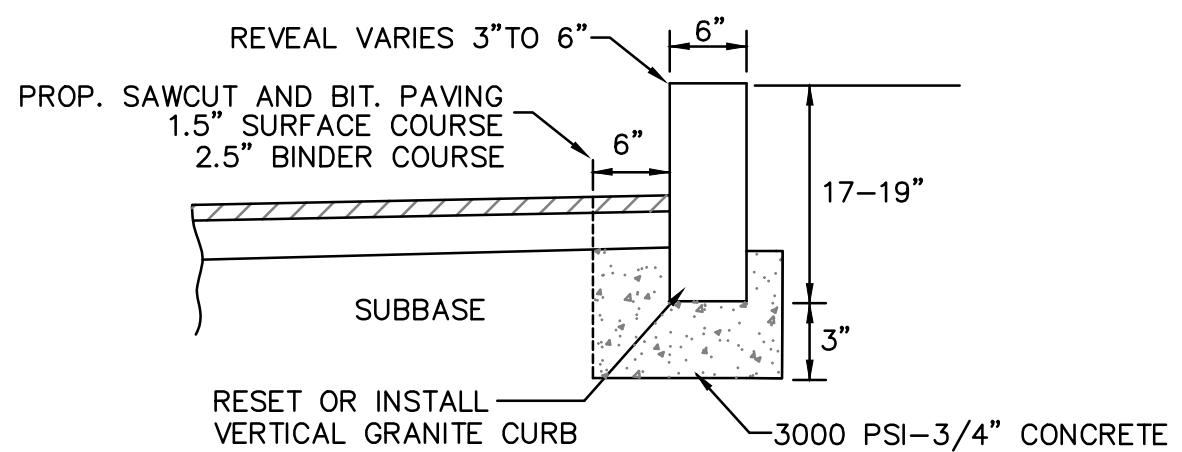
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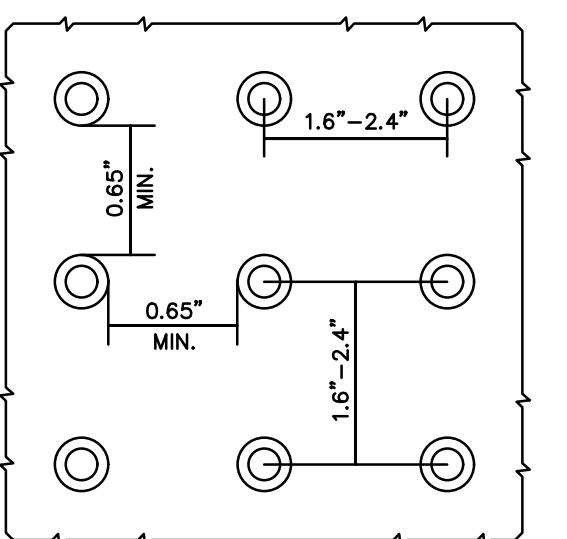


TYPICAL CEMENT CONCRETE SIDEWALK PLAN
N.T.S.

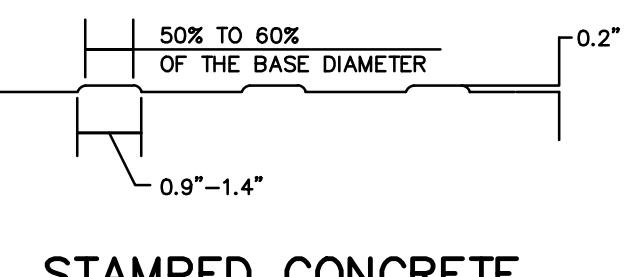


VERTICAL GRANITE CURB
N.T.S.

- 1.) THE CONTRACTOR SHALL SAWCUT THE PAVEMENT TO EXCAVATE, REMOVE AND RESET THE EXISTING GRANITE CURB AS SPECIFIED WITH CONCRETE BACKFILL TO THE PROPOSED ELEVATIONS AND AS SHOWN ABOVE.
- 2.) THE CONTRACTOR SHALL INSTALL AND MAINTAIN A 4" MINIMUM THICKNESS PERMANENT BITUMINOUS CONCRETE (HMA) PAVING. PAVING SHALL BE INSTALLED IN 2 COMPACTED COURSES OF HMA CONSISTING OF A MINIMUM OF 1 1/2" TOP COURSE AND 2 1/2" COURSE BINDER COURSE. TACK COAT BETWEEN PAVING COURSES.
- 3.) ALL PAVEMENT JOINTS ARE TO BE Sanded AND SEALED.



**STAMPED CONCRETE
DETECTABLE WARNING PANEL**
N.T.S.



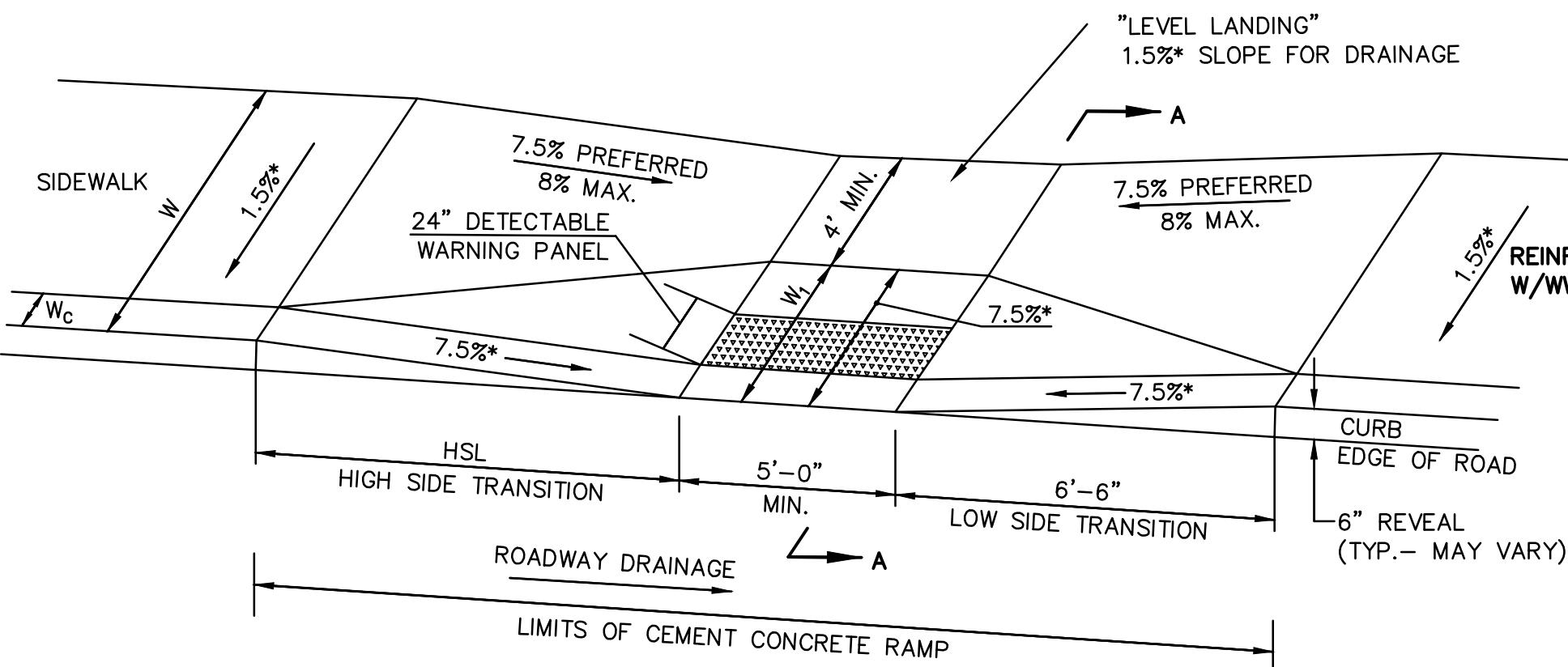
PLAN
DETAIL NOTES:

1. ALL HANDICAP RAMPS SHALL BE PORTLAND CEMENT CONCRETE 6" THICK.
2. CURBING FOR ALL CONCRETE RAMPS SHALL BE VERTICAL GRANITE CURB ($W_c=6"$) OR SLOPED GRANITE CURB ($W_c=0"$), SEE PLAN FOR TYPE.
3. THE DIMENSIONS SHOWN AT ROADWAY EDGE ARE FIXED DISTANCES.
4. RAMP CROSS SECTION TO BE SAME AS ADJACENT SIDEWALK; e.g. DEPTH OF SURFACES.
5. PORTLAND CEMENT CONCRETE RAMPS ARE TO BE TEXTURED BY BROOMING IN A DIRECTION PARALLEL TO THE LENGTH OF THE RAMP.
6. THESE DIMENSIONS ARE SUBJECT TO CHANGE IN THE FIELD IF EXISTING APPURTENANCES OR CONDITIONS WILL MAKE THE RAMP LOCATIONS IMPRACTICAL OR UNSAFE.

ROADWAY PROFILE GRADE %	*HIGH SIDE TRANSITION LENGTH
0	6'-6"
> 0 - 1	7'-8"
> 1 - 2	9'-0"
> 2 - 3	11'-0"
> 3 - 4	14'-0"
> 4	15'-0" MAX.

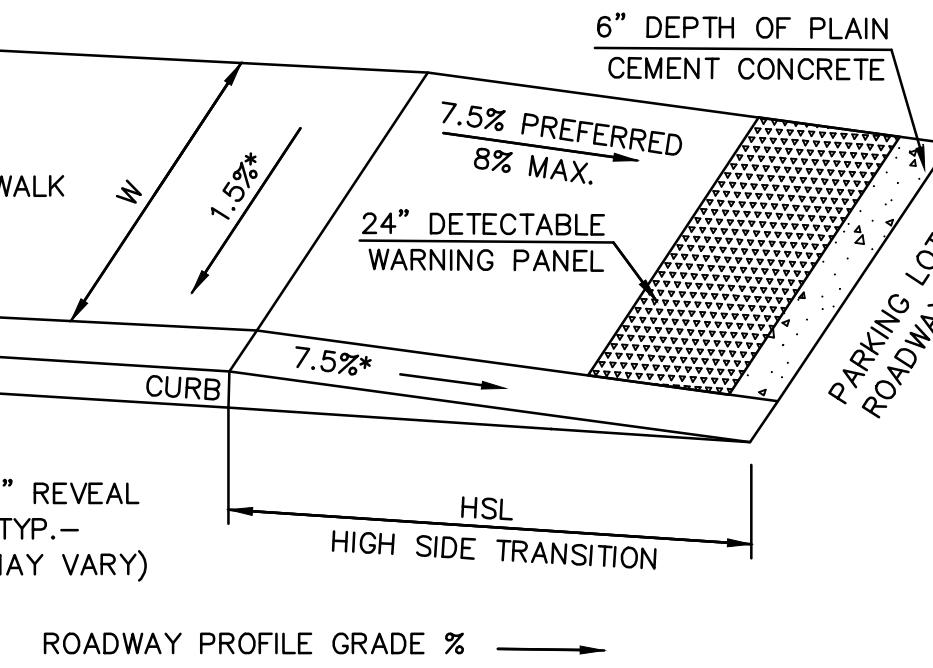
* BASED ON DESIGN SLOPE = 7.5% AND A CURB REVEAL OF 6".
CURB TRANSITION LENGTH FOR WHEELCHAIR RAMPS

SECTION A-A



* = TOLERANCE FOR CONSTRUCTION $\pm 0.5\%$
USEABLE SIDEWALK WIDTH PER AAB = $W - W_c$
RAMP LENGTH, $W_c = (4'-0")$ MIN.

W = SIDEWALK WIDTH
4'-0" MIN. W_c = RAMP LENGTH
8" MIN. 6" REVEAL (TYP. - MAY VARY)
SIDEWALK FOUNDATION
NORMAL SIDEWALK/DRIVeway LIMITS
ROADWAY

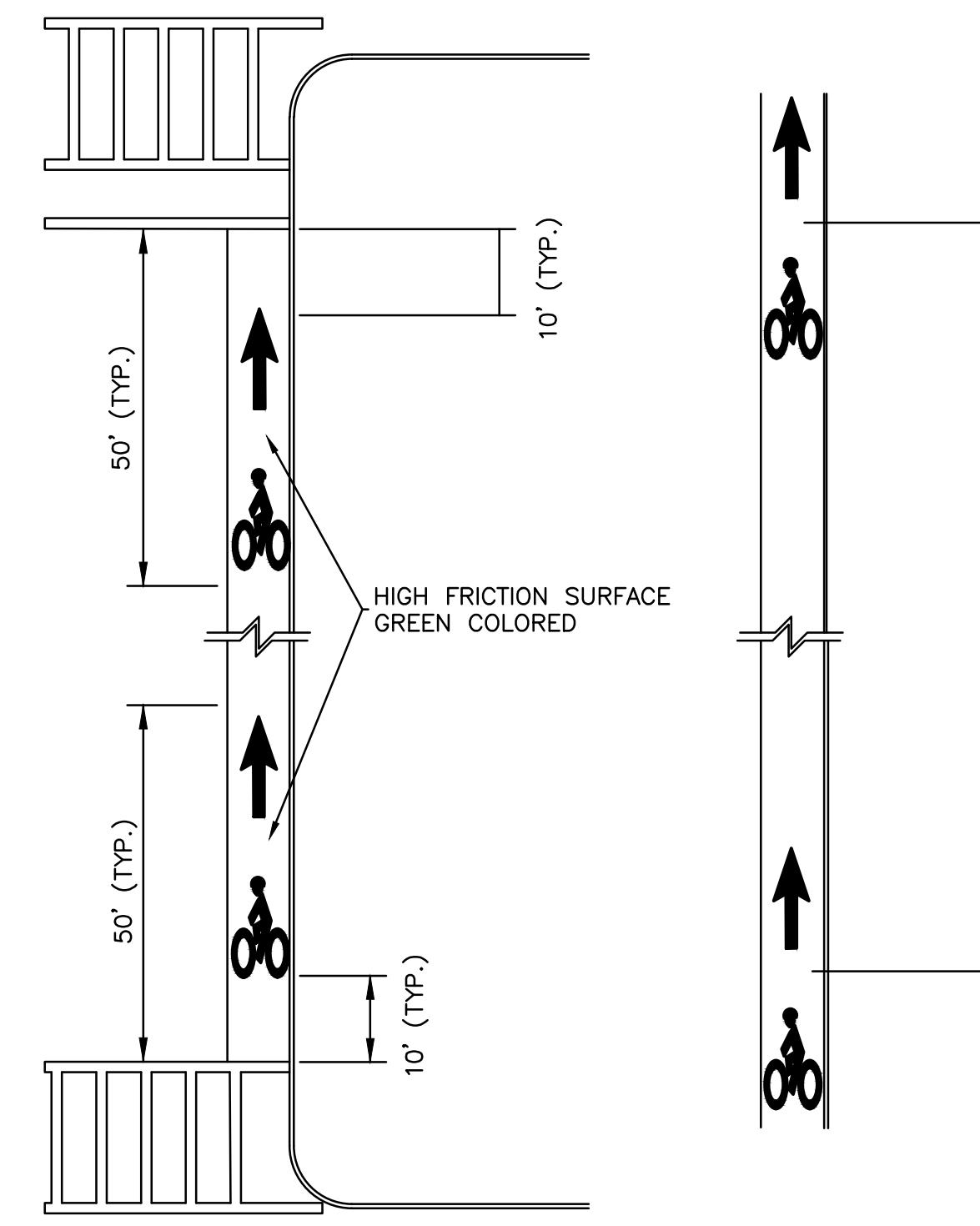


PLAN

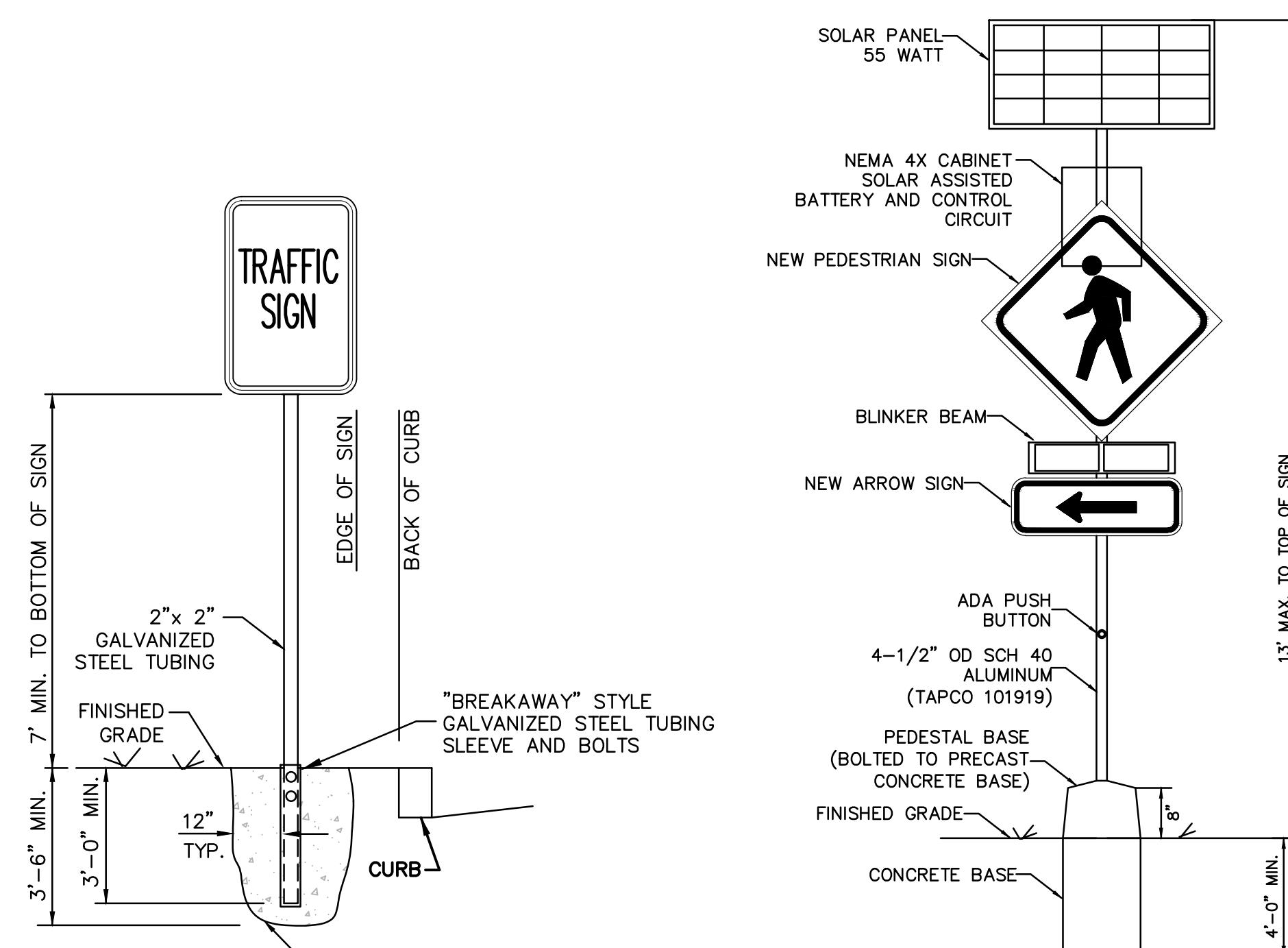
WHEELCHAIR RAMP NOTES

1. ROADWAY SIDEWALK CROSS SLOPES, FOR BRICK, CEMENT CONCRETE, AND HMA, AS INDICATED IN THE STANDARD SPECIFICATIONS, WILL BE 1.5%. A CONSTRUCTION TOLERANCE OF $\pm 0.5\%$ IS ACCEPTABLE ON ROADWAY SIDEWALKS. IN ACCORDANCE WITH 521 CMR THE RULES AND REGULATIONS OF THE ARCHITECTURAL ACCESS BOARD (AAB), THE SIDEWALK CROSS SLOPE CANNOT EXCEED 2.0%.
2. AN UNOBSTRUCTED PATH OF TRAVEL WITH A MINIMUM WIDTH OF 3'-3" SHALL BE MAINTAINED PAST ALL OBSTRUCTIONS (UTILITY POLES, SIGNS, SIGNAL FOUNDATIONS AND MASTS, MAILBOXES, ALONG DRIVE OPENINGS, ETC.).
3. THE WHEELCHAIR RAMP SLOPES AND SIDE SLOPES (TRANSITIONS) WILL BE 7.5% WITH A CONSTRUCTION TOLERANCE OF $\pm 0.5\%$. HOWEVER, THESE SLOPES MAY BE FLATTER WHEN WARRANTED BY SURROUNDING CONDITIONS.
4. IF THE ROAD PROFILE EXCEEDS 4%, THE HIGH SIDE TRANSITION LENGTH UNDER ANY CONDITIONS NEED NOT EXCEED 15'.
5. IN NO CASE WHERE A STOP LINE IS WARRANTED, SHALL A RAMP BE PLACED ON THE TRAFFIC APPROACH SIDE OF THAT STOP LINE.
6. FIXED OBJECTS (I.E. UTILITY POLES, HYDRANTS, SIGNS, SIGNAL FOUNDATIONS, ETC.) MUST NOT ENCROACH UPON ANY PART OF THE WHEELCHAIR RAMP INCLUDING TRANSITION SLOPES.
7. AT NO TIME IS ANY PART OF THE WHEELCHAIR RAMP, EXCLUDING CURB TRANSITIONS, TO BE LOCATED OUTSIDE THE CROSSWALK OR PEDESTRIAN TRAVEL PATH. THE WHEELCHAIR RAMP ENTRANCE IS TO BE CENTERED IN THE CROSSWALK OR PEDESTRIAN TRAVEL PATH WHENEVER POSSIBLE.
8. CATCH BASINS WHICH ARE IN THE VICINITY OF A WHEELCHAIR RAMP SHALL BE LOCATED UPGRADE OF THE RAMP ENTRANCE.
9. THE ENTRANCE OF A WHEELCHAIR RAMP SHALL BE FLUSH WITH THE ROADWAY.
10. TESTING SURFACE: WHEN TESTING WITH A STRAIGHTEDGE PLACED PARALLEL TO THE LINE OF THE SLOPE THERE SHALL BE NO DEVIATION FROM A TRUE SURFACE IN EXCESS OF 1/4".
11. SIDEWALK CONSTRUCTION SHALL BE IN CONFORMANCE WITH MASS HIGHWAY CONSTRUCTION STANDARDS FOR WHEELCHAIR RAMPS.

TYPICAL WHEELCHAIR RAMP CONDITION



TYPICAL ROADWAY PAVEMENT SECTION
N.T.S.



TYPICAL SIGN INSTALLATION DETAIL
N.T.S.

FLASHING PEDESTRIAN CROSS WALK SIGN
N.T.S.

NOTES:

1. ALL SIGN POSTS SHALL BE GALVANIZED STEEL, BREAKAWAY STYLE, 2" x 2" SQUARE TUBING.
2. POST SHALL COMPLY WITH MASSDOT STANDARDS.
3. EDGE OF SIGN SHALL NOT OVERHANG BACK OF CURB.

1. DESIGN PLANS SHOULD BE CONSULTED FOR VARIATIONS.

BIKE LANE SYMBOL SPACING
NOT TO SCALE

CONSTRUCTION DETAILS II

FAIRHAVEN, MASSACHUSETTS
COMPLETE STREETS
PROJECT 1, 2 AND 17

GCG ASSOCIATES, INC.

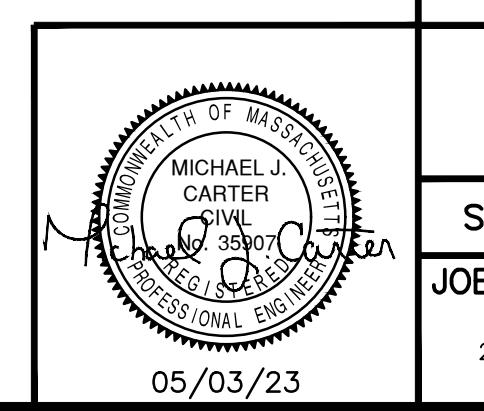
WILMINGTON MASSACHUSETTS

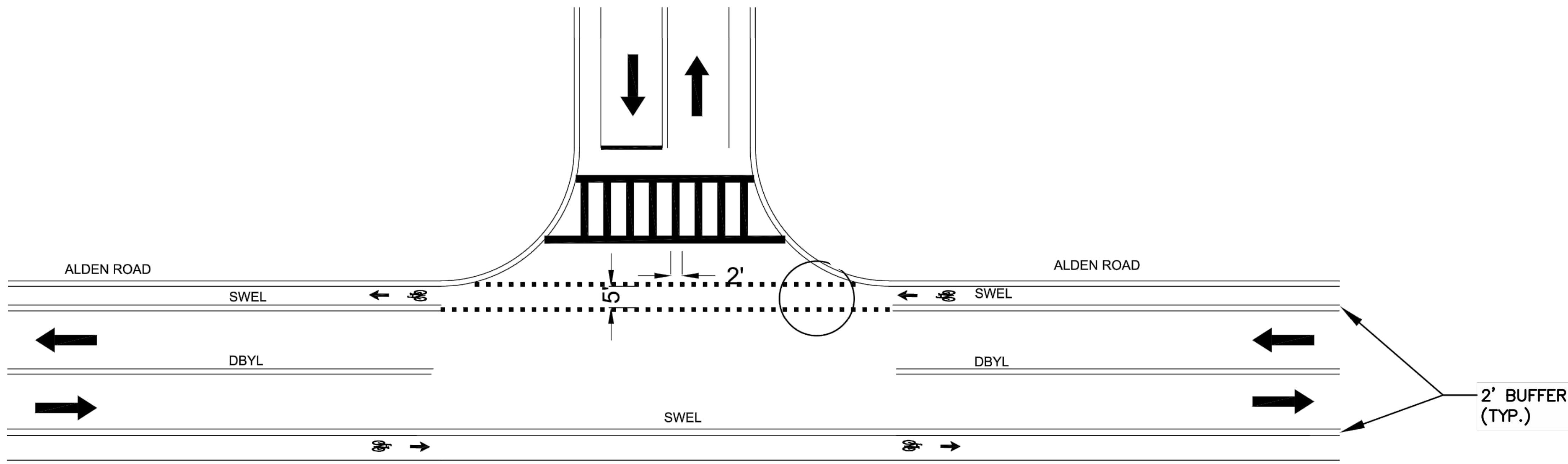
SCALE: N.T.S. DATE: MAY 2, 2023

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2153-ALDEN WORKING 9 OF 17





BIKE LANE CROSSING AT AN UNSIGNALIZED
INTERSECTION

NOT TO SCALE

NOTES:

1. STOP LINE TO BE PLACED A MINIMUM OF 4 FEET BACK FROM BIKE LANE CROSSING MARKINGS WHERE THERE IS NO PEDESTRIAN CROSSWALK ACROSS SIDE STREET.
2. SIMILAR SET-UP CAN BE USED FOR BOTH THREE-LEGGED AND FOUR-LEGGED INTERSECTIONS.

TO BE USED AT THE FOLLOWING LOCATIONS:

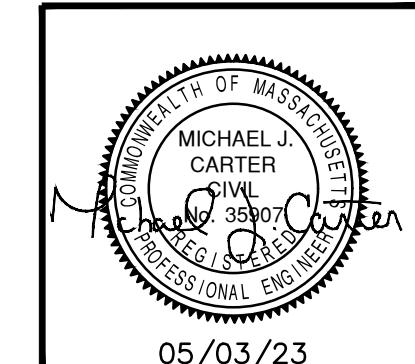
- ALDEN ROAD AT MARGUERITE STREET
- ALDEN ROAD AT SHARON STREET
- ALDEN ROAD AT MANUEL STREET
- ALDEN ROAD AT STAFFON ROAD/BOSTON HILL ROAD
- ALDEN ROAD AT LONG ROAD/LAURA LANE
- ALDEN ROAD AT SWEENEYS LANE
- ALDEN ROAD AT GARDNER STREET
- ALDEN ROAD AT LAMBETH PARK DRIVE
- ALDEN ROAD AT PEQUOD ROAD

BIKE LANE CROSSING DETAILS

FAIRHAVEN, MASSACUSETTS
COMPLETE STREETS
PROJECT 1, 2 AND 17

GCG ASSOCIATES, INC.

WILMINGTON MASSACHUSETTS



SCALE: N.T.S. DATE: MAY 2, 2023

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2153-ALDEN WORKING DRAWN BY: B.J.V. 10 OF 17
CHECKED BY: M.J.C.



MAIN STREET AT THE OFFICE OF FAIRHAVEN
HOUSING AUTHORITY AND EXISTING SRTA BUS STOP
PEDESTRIAN CROSSING AND ADA IMPROVEMENTS
NOTE: EXACT LOCATION TO BE DETERMINED IN THE FIELD

○ = LEGEND
 ○ = APPROX. ADA-COMPLIANT WHEELCHAIR RAMP OR ITEM
 IIII = APPROX. NEW OR RESTRIPIED CROSSWALK
 ● = APPROX. RRFB LOCATION

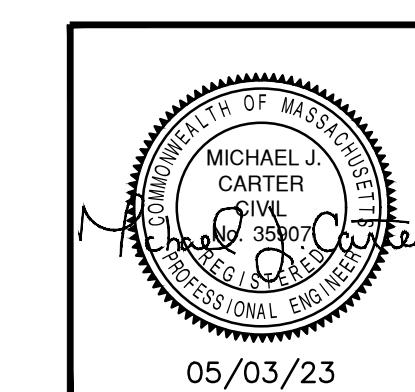
PROJECT #2

**PEDESTRIAN CROSSING PLAN
MAIN STREET**

**FAIRHAVEN, MASSACHUSETTS
COMPLETE STREETS
PROJECTS 1, 2 AND 17**

GCG ASSOCIATES, INC.

WILMINGTON MASSACHUSETTS



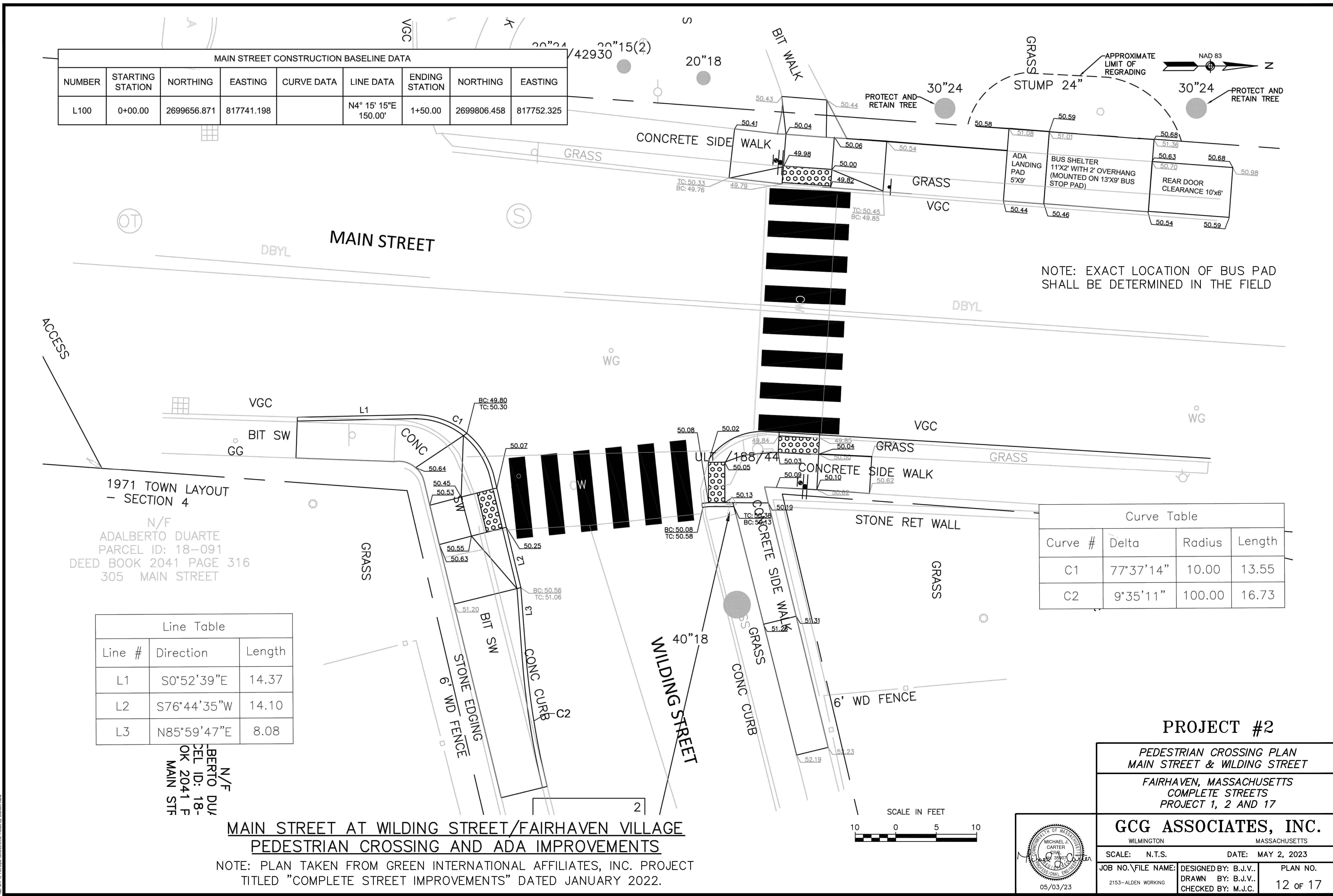
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2153-ALDEN WORKING DRAWN BY: B.J.V.

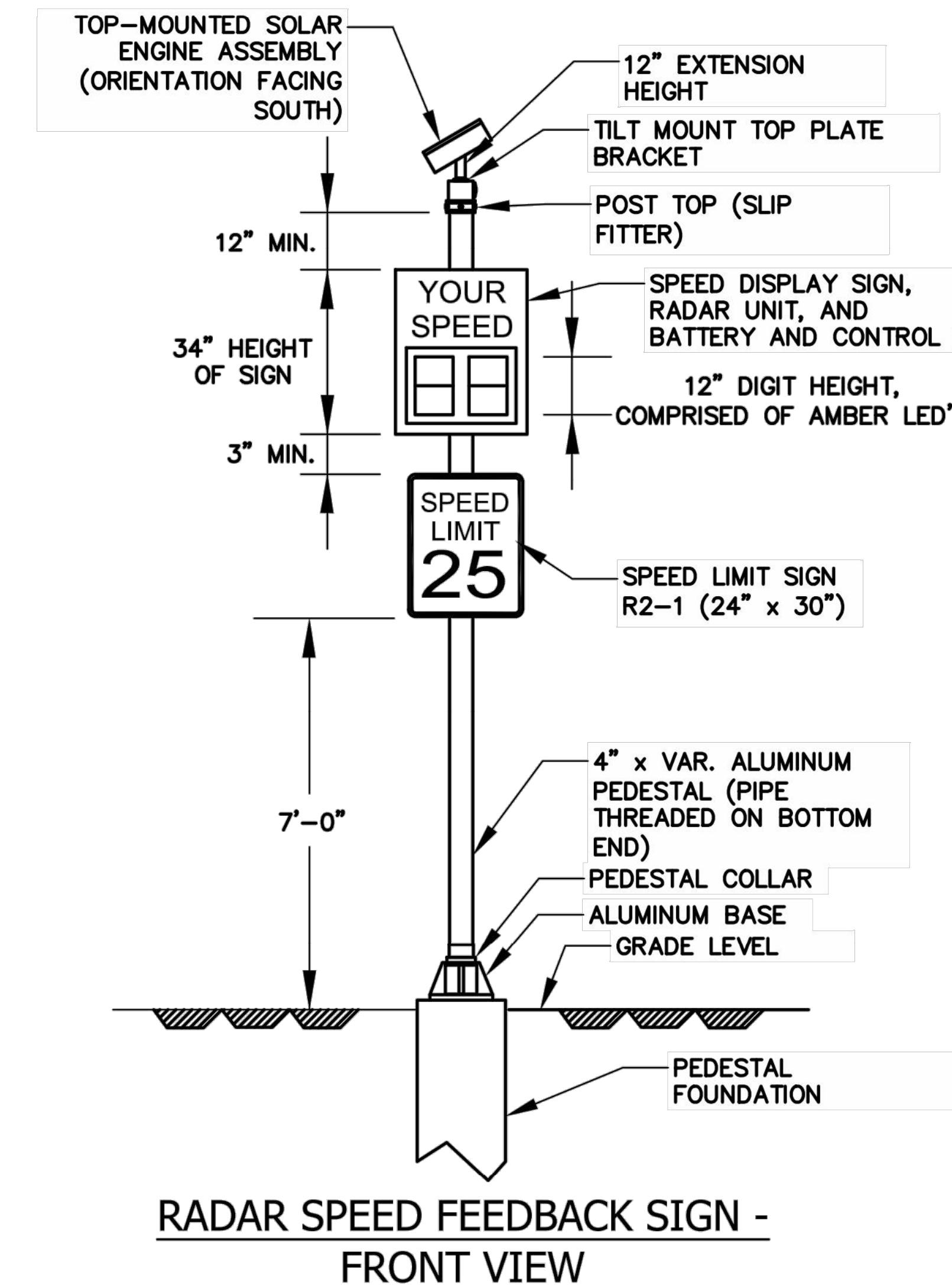
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11 OF 17



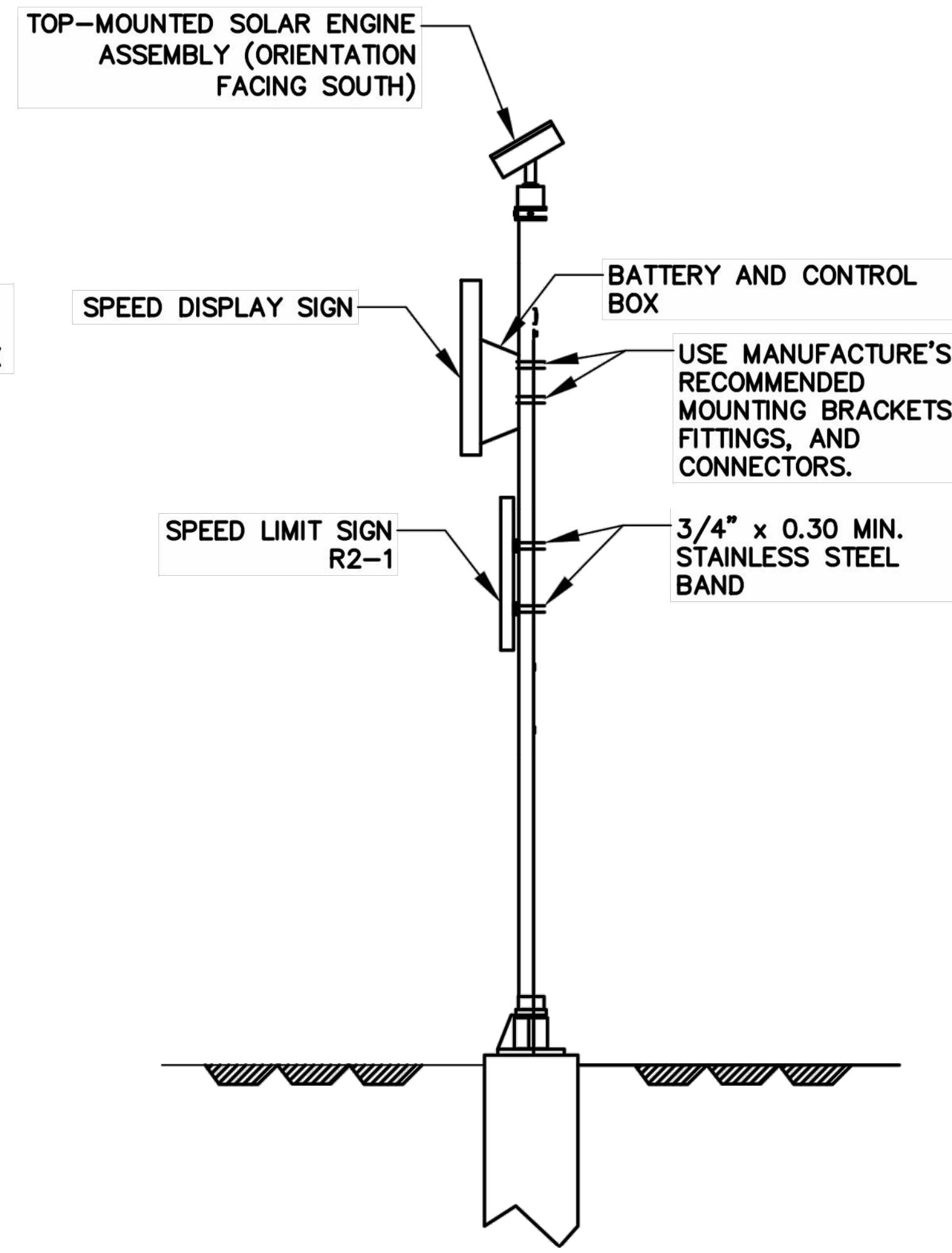


NOTE: PLAN TAKEN FROM GREEN INTERNATIONAL AFFILIATES, INC. PROJECT
TITLED "COMPLETE STREET IMPROVEMENTS" DATED JANUARY 2022.



RADAR SPEED FEEDBACK SIGN -
FRONT VIEW

NOT TO SCALE



RADAR SPEED FEEDBACK SIGN -
SIDE VIEW

NOT TO SCALE

SCONTICUT NECK ROAD TRAFFIC CALMING SAFETY

NOTES:

1. AERIAL PHOTO SHOWN IN THIS SHEET IS FROM 2019 USGS COLOR ORTHO IMAGERY. CONTRACTOR SHALL NOTE THAT FIELD CONDITIONS MAY HAVE CHANGED SINCE THIS AERIAL PHOTO WAS TAKEN.

PROJECT #17

TRAFFIC CALMING SAFETY PLAN
SCONTICUT ROAD

FAIRHAVEN, MASSACHUSETTS
COMPLETE STREETS
PROJECTS 1, 2 AND 17

GCG ASSOCIATES, INC.

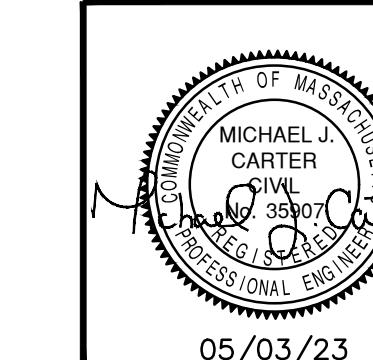
WILMINGTON MASSACHUSETTS

SCALE: N.T.S. DATE: MAY 2, 2023

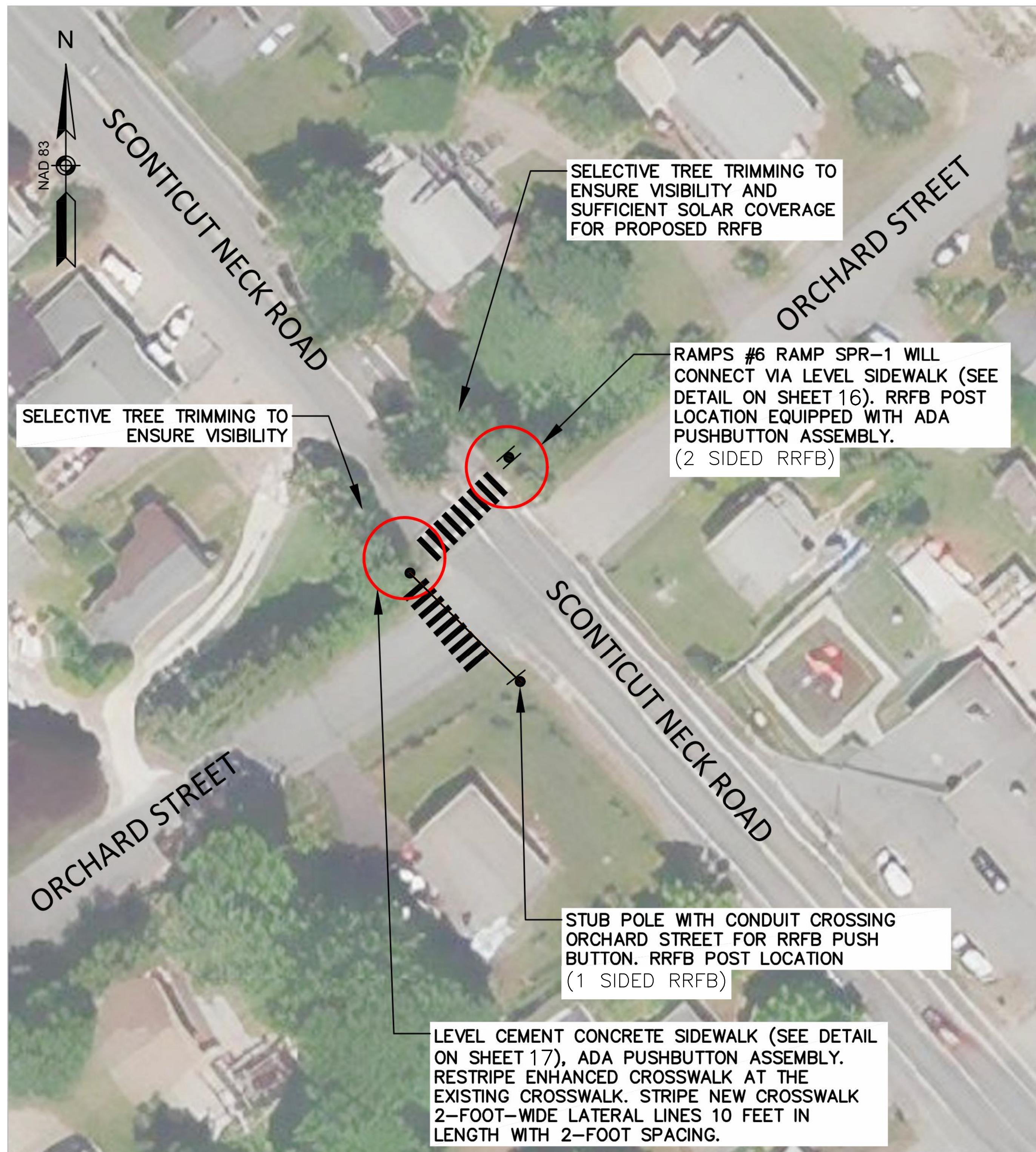
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2153-ALDEN WORKING 13 OF 17



05/03/23



ORCHARD STREET ENHANCED CONNECTION TO LITTLE BAY EXTENSION BIKE PATH

PROJECT #17

NOTES:

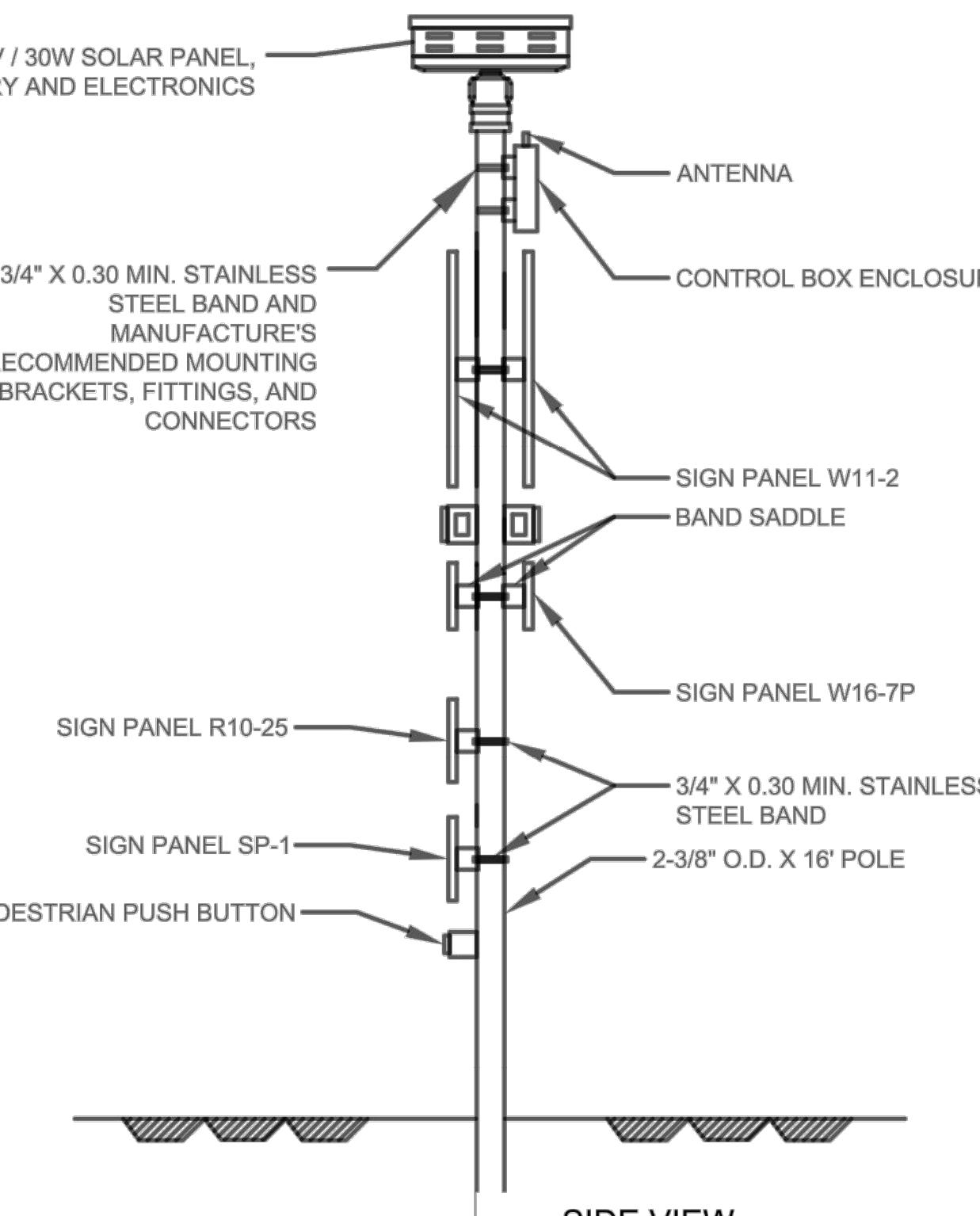
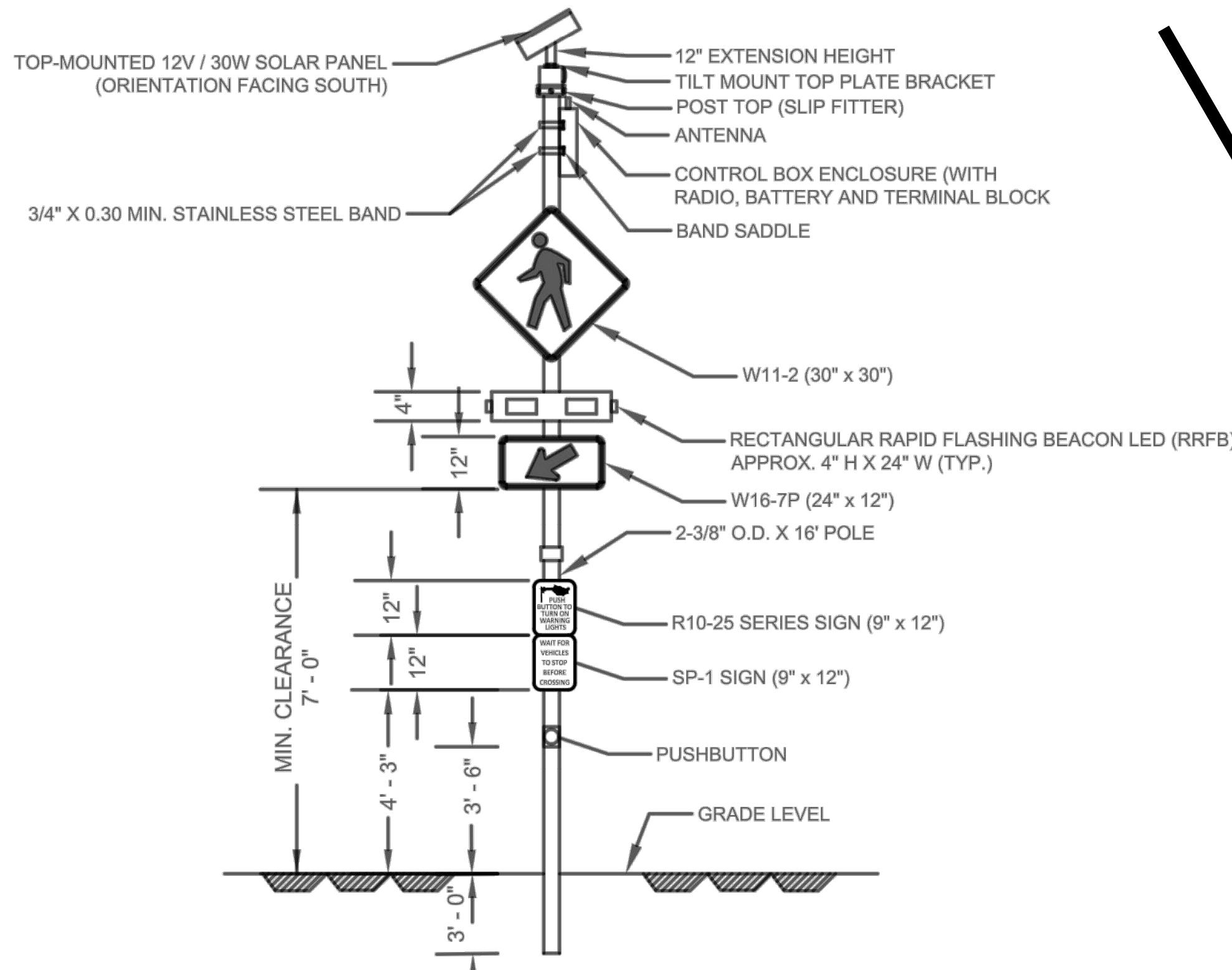
1. AERIAL PHOTO SHOWN IN THIS SHEET IS FROM 2019 USGS COLOR ORTHO IMAGERY. CONTRACTOR SHALL NOTE THAT FIELD CONDITIONS MAY HAVE CHANGED SINCE THIS AERIAL PHOTO WAS TAKEN.

LEGEND:

- = APPROX. ADA-COMPLIANT WHEELCHAIR RAMP OR ITEM
- ===== = APPROX. NEW OR RESTRIPED CROSSWALK
- = APPROX. RRFB LOCATION
- = APPROX. CONDUIT CONNECTION

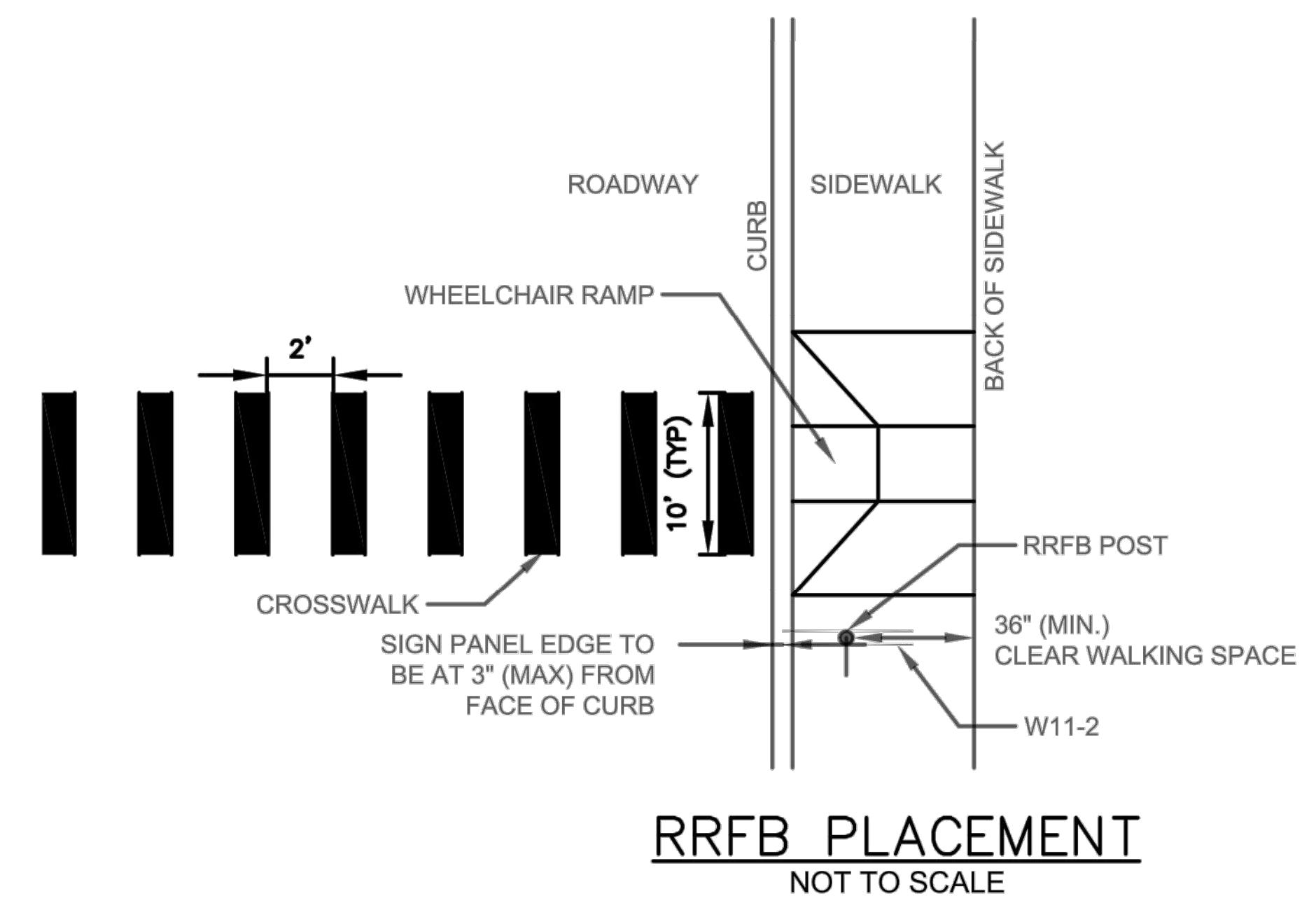
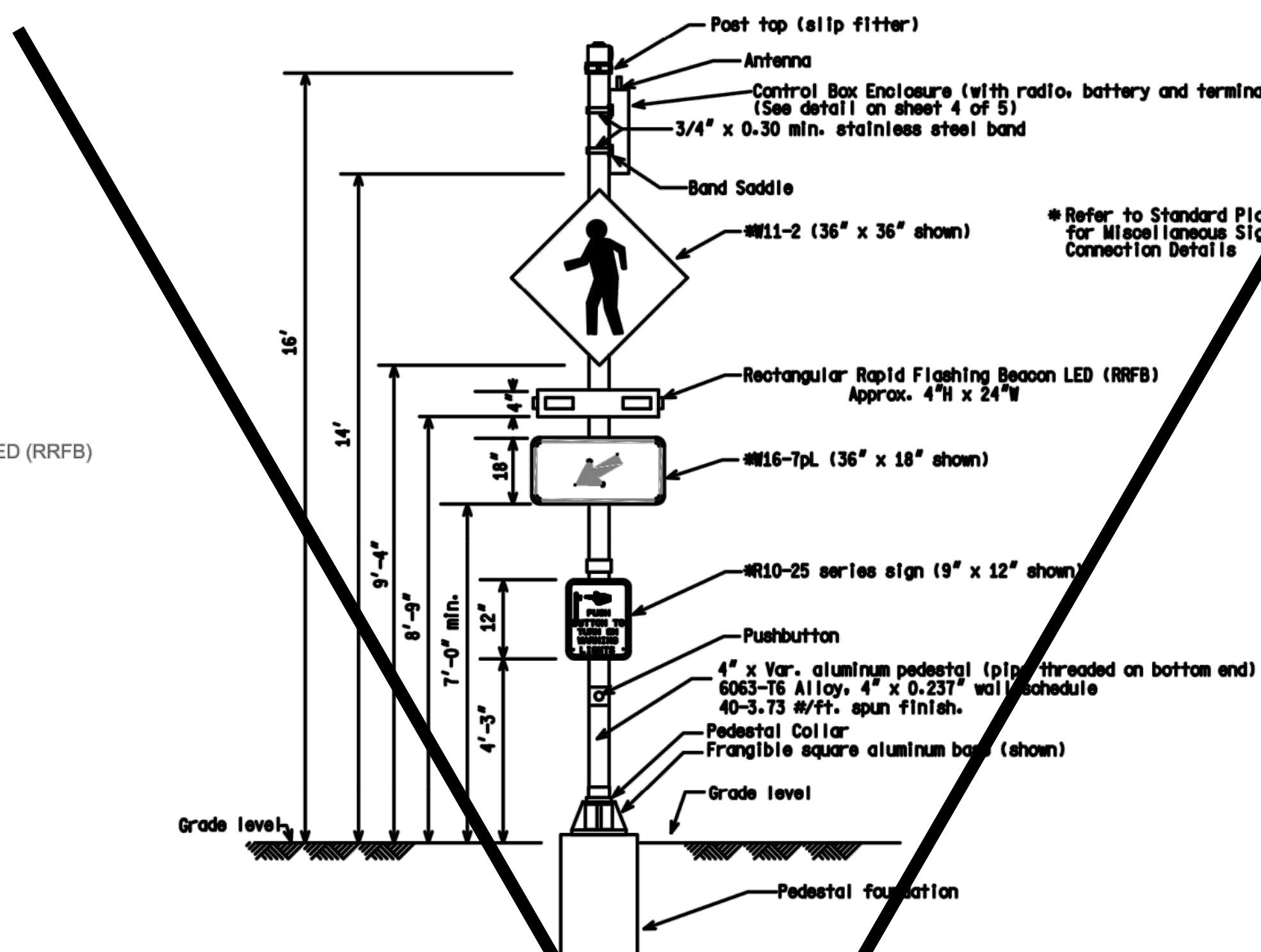
NOTE: PLAN TAKEN FROM GREEN INTERNATIONAL AFFILIATES, INC. PROJECT TITLED "COMPLETE STREET IMPROVEMENTS" DATED JANUARY 2022.

PEDESTRIAN CROSSING PLAN ORCHARD STREET & SCONTICUT ROAD	
FAIRHAVEN, MASSACHUSETTS COMPLETE STREETS PROJECT 1, 2 AND 17	
GCG ASSOCIATES, INC. WILMINGTON MASSACHUSETTS	
SCALE: N.T.S.	DATE: MAY 2, 2023
JOB NO.\FILE NAME: 2153-ALDEN WORKING	DESIGNED BY: B.J.V. DRAWN BY: B.J.V. CHECKED BY: M.J.C.
	PLAN NO. 14 OF 17

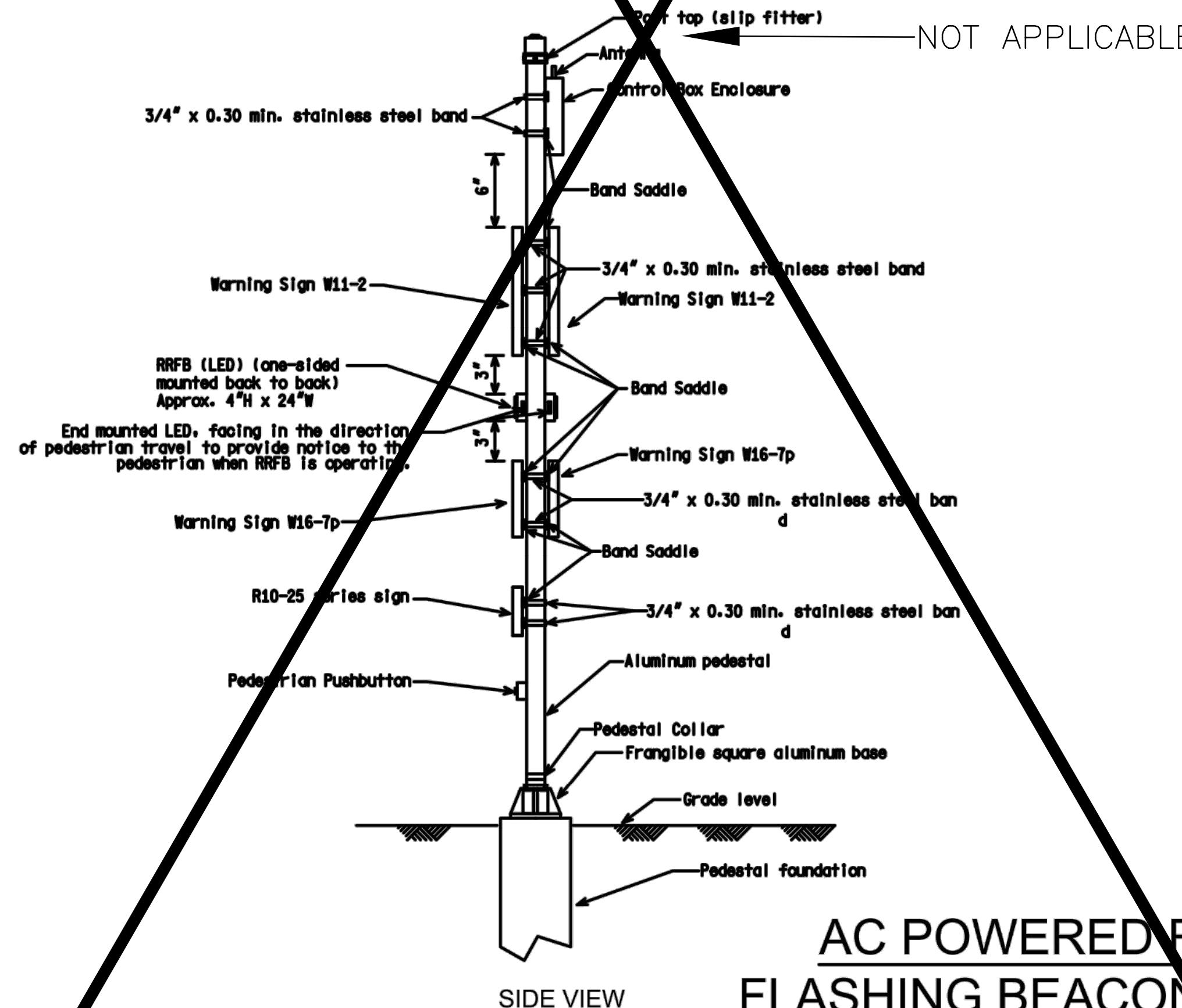


**SOLAR POWER ASSEMBLY
(TWO-SIDED RRFB)**

NOT TO SCALE



RRFB PLACEMENT
NOT TO SCALE



**AC POWERED RECTANGULAR RAPID
FLASHING BEACON (RRFB) WITH TRAFFIC
SIGNAL POST**

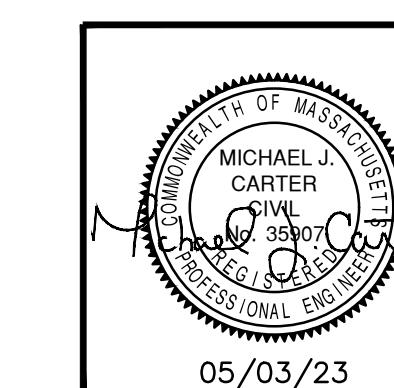
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PROJECT #17

CONSTRUCTION DETAILS III

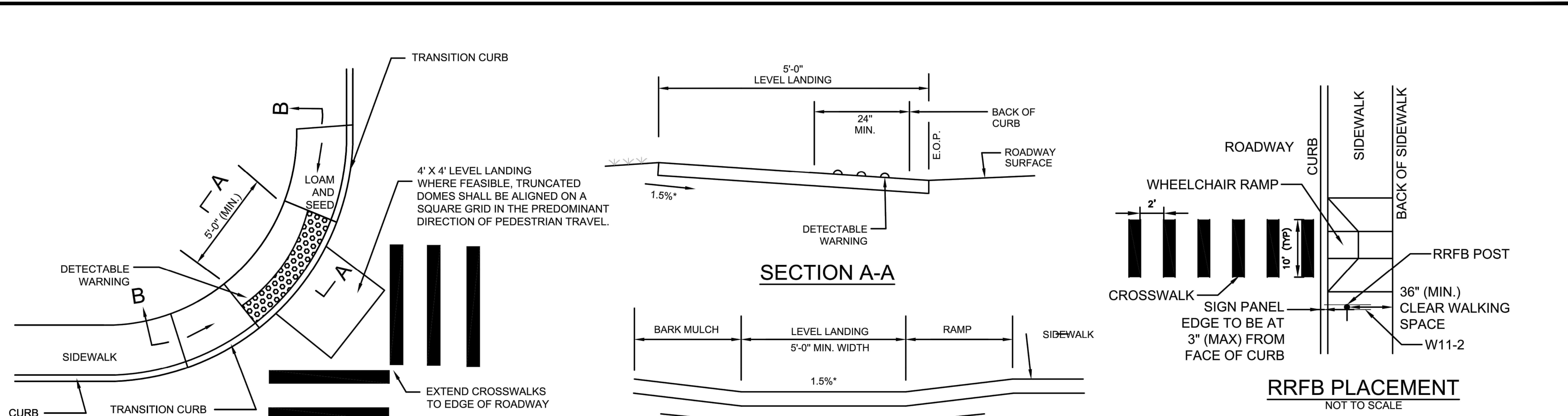
FAIRHAVEN, MASSACHUSETTS
COMPLETE STREETS
PROJECT 1, 2 AND 17

GCG ASSOCIATES, INC.	
WILMINGTON	MASSACHUSETTS
SCALE: N.T.S.	DATE: MAY 2, 2023
JOB NO. / FILE NAME: 2153-ALDEN WORKING	DESIGNED BY: B.J.V.
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	CHECKED BY: M.J.C.



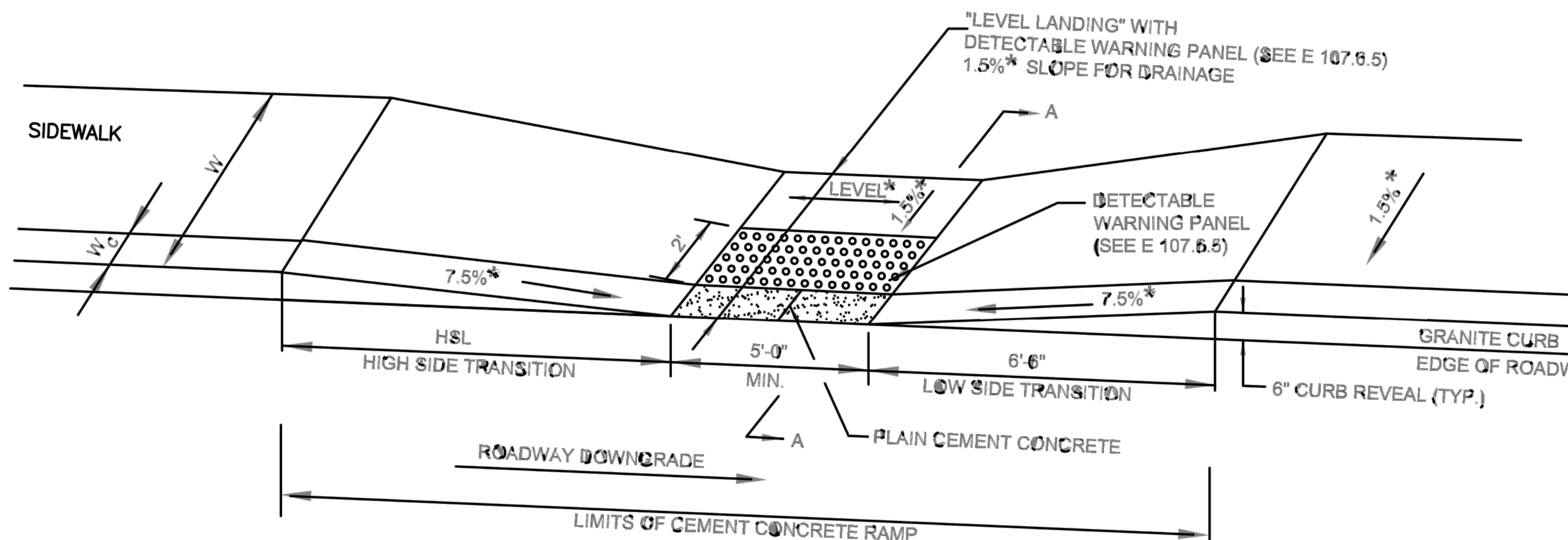
05/03/23

NOTE: PLAN TAKEN FROM GREEN INTERNATIONAL AFFILIATES, INC. PROJECT
TITLED "COMPLETE STREET IMPROVEMENTS" DATED JANUARY 2022.



SPR-1
SINGLE END RAMP ON CORNER RADIUS:
SIDEWALK ADJACENT TO CURB

NOT TO SCALE



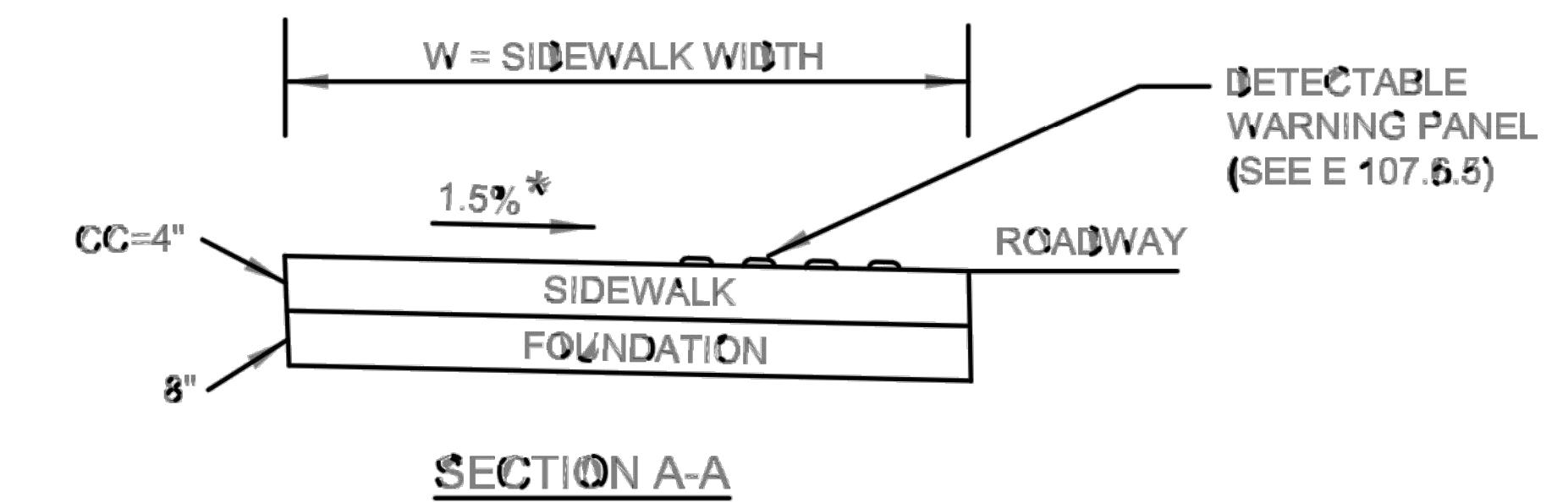
WHEELCHAIR RAMP ON NARROW SIDEWALK E 107.2.1

NOT TO SCALE

NOTE: PLAN TAKEN FROM GREEN INTERNATIONAL AFFILIATES, INC. PROJECT
TITLED "COMPLETE STREET IMPROVEMENTS" DATED JANUARY 2022.

SECTION B-B

NOTE:
* = TOLERANCE FOR CONSTRUCTION ±0.5%



SECTION A-A

LEGEN

HSL = HIGH SIDE TRANSITION LENGTH
(SEE E 107.9.0)

W = SIDEWALK WIDTH

W_c = CURB WIDTH

CC = CEMENT CONCRETE

* = TOLERANCE FOR CONSTRUCTION $\pm 0.5\%$

USABLE SIDEWALK WIDTH PER AAB = W-Wc
USABLE SIDEWALK WIDTH PER AAB IS NOT TO

**SCABBLE SIDEWALK WIDTH IS NOT
TO BE LESS THAN 4'0"**
SEE E 107.6.5 FOR DETAILS OF DETECTABLE

WARNING PANEL

NOTE:
ROADWAY, GUTTER, AND FIRST 6
OF SIDEWALK TO BE ADJUSTED
FOR FIELD CONDITIONS

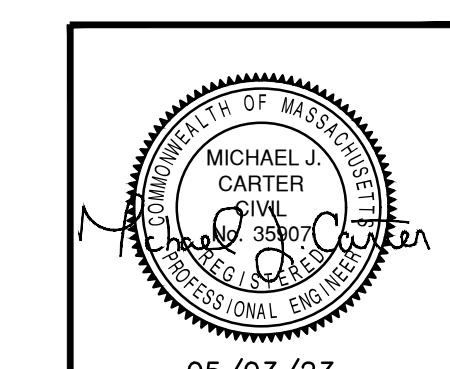
PROJECT #17

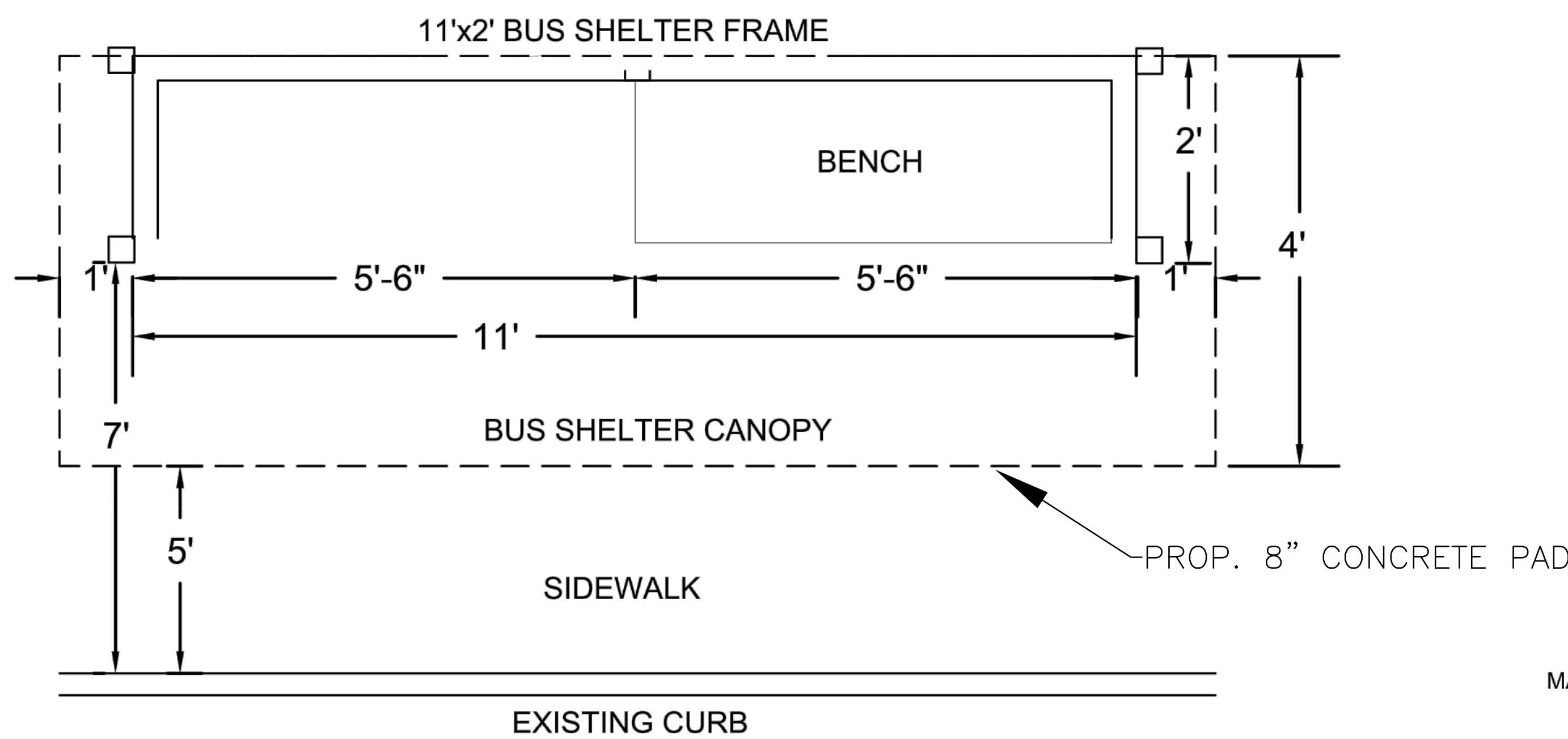
CONSTRUCTION DETAILS IV

FAIRHAVEN, MASSACHUSETTS COMPLETE STREETS PROJECT 1, 2 AND 17

GCG ASSOCIATES, INC.

WILMINGTON MASSACHUSETTS





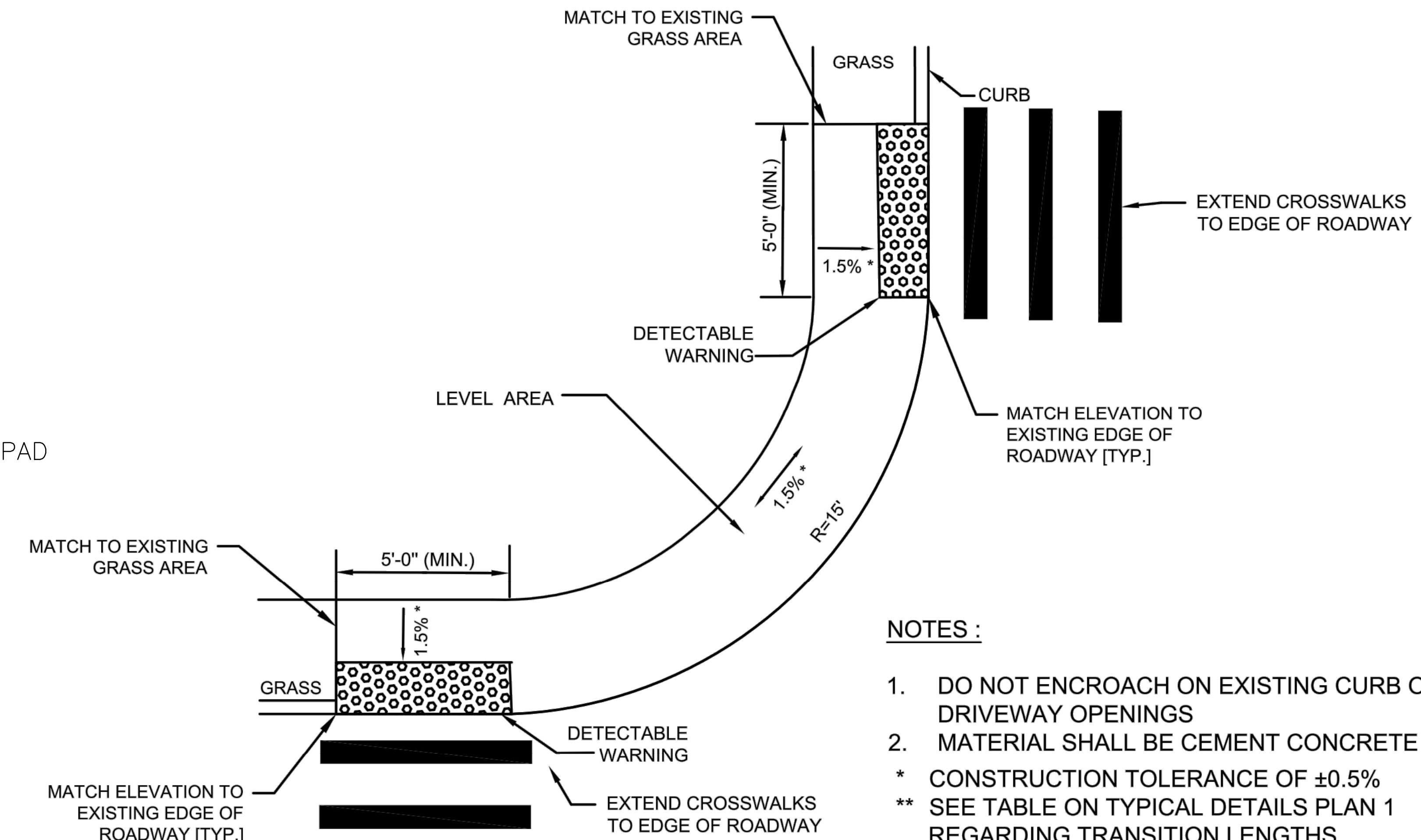
BUS SHELTER DETAIL - TOP VIEW

NOT TO SCALE

NOTES:

* CONSTRUCTION TOLERANCE $\pm 0.5\%$

** CONCRETE PAD AND SUBBASE SHALL BE DESIGNED
PER BUS SHELTER MANUFACTURER'S
RECOMMENDATIONS

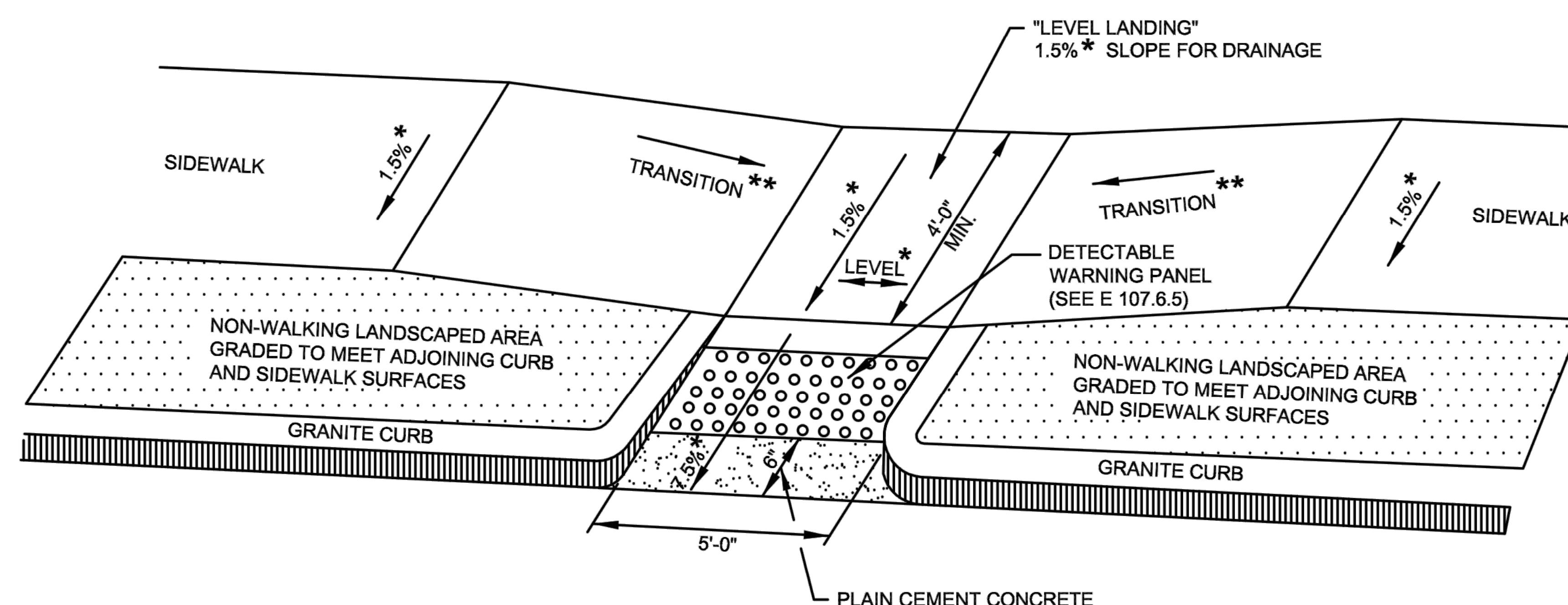


NOTES :

1. DO NOT ENCROACH ON EXISTING CURB OR DRIVEWAY OPENINGS
2. MATERIAL SHALL BE CEMENT CONCRETE

* CONSTRUCTION TOLERANCE OF $\pm 0.5\%$

** SEE TABLE ON TYPICAL DETAILS PLAN 1
REGARDING TRANSITION LENGTHS



SCONTICUT NECK ROAD AT ORCHARD STREET FLCHED RAMP OPENING

NOT TO SCALE

PROJECT #17

CONSTRUCTION DETAILS V

FAIRHAVEN, MASSACHUSETTS
COMPLETE STREETS
PROJECT 1, 2 AND 17

GCG ASSOCIATES, INC.

WILMINGTON MASSACHUSETTS

SCALE: N.T.S. DATE: MAY 2, 2023

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2153-ALDEN WORKING 17 OF 17

LEGEND

* = TOLERANCE FOR CONSTRUCTION $\pm 0.5\%$

** = SEE E 107.9.0 FOR TRANSITION LENGTH

E 107.6.9 WHEELCHAIR RAMP WITH LANDSCAPING STRIP

NOT TO SCALE

NOTE: PLAN TAKEN FROM GREEN INTERNATIONAL AFFILIATES, INC. PROJECT
TITLED "COMPLETE STREET IMPROVEMENTS" DATED JANUARY 2022.

